

SEQUENCE LISTING

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<210> 15

<211> 1158

<212> DNA

<213> Homo sapiens

<400> 15

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<210> 16

<211> 1880

<212> DNA

<213> Homo sapiens

<400> 16

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<210> 17

<211> 1190

<212> DNA

<213> Homo sapiens

<400> 17

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<210> 18

<211> 2173

<212> DNA

<213> Homo sapiens

<400> 18

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<210> 19

<211> 1364

<212> DNA

<213> Homo sapiens

<400> 19

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<211> 1082

<212> DNA

<213> Homo sapiens

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<210> 21

<211> 1268

<212> DNA

<213> Homo sapiens

<400> 21

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<211> 1204

<212> DNA

<213> Homo sapiens

<400> 22

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gccggtgctg ggtgaggttg gcgtgctgcc gaaagctctg gccgcactcg gggcaggcga 420
agggccgttc gcccggtgtg atgcgctggt gctcgggtgag ccgcgagacc tgcgtgaagc 480

```

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ccaggccgca ctcaccgcag tggtagggct tttcgccggt gtgtgtcctc tgatgaacgc 540
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ccgtgtgtac gcggagatgc tgcgtgagcg taggccgctg gcggaaggcc ttgccacact 660
cggcgccaggc gaaggggccgc tccccggtgt ggatgcgcgc gtgctgcgctc aggttggagc 720
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agct 1204

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<210> 23

<211> 1728

<212> DNA

<213> Homo sapiens

<400> 23

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tgagaaacca gagttaaacc ctctttggag cttctgagga ctcagctgga accaacgggc 60
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ccatcaaatt tcatcaactt ctcccaagca gagaaacccg aaccacacaa ccaggggcag 180
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cactgaactg tatactttgg aactgagttt tacggcatgt aagctcagct ttagcaaaaa 1680
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<210> 24

<211> 895

<212> DNA

<213> Homo sapiens

<400> 24

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cacagccaga gctggagggtg ggtgccgggc acggaggggc ctgcggacca atggctctgc 60
cctgcacctt agggctcggg atgctgctgg ccctgccagg gcccttgggc tcgggtggca 120
gcgcgaggag cagcgtgggc tccagctctg tcaccgttgt cctgctgctg ctgctgtccc 180
tactgtggc cactggcctt gcactggcct ggcgcgcct cagccgtgac tcagggggct 240
actaccacc ggccgccta ggtgccgcgc cgtggggccg cacgcggcgc ctgctctggg 300
ccagccccc aggtcgtctg ctgcaggccc gagctgagct ggggtccaca gacaatgacc 360

```

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ttgagcgaca ggaggatgag caggacacag actatgacca cgtcgcggat ggtggcctgc 420
aggctgaccc tggggaaggc gagcagcaat gtggagaggc gtccagccca gagcaggctc 480
ccgtgcgggc tgaggaagcc agagacagtg acacggaggc cgacctgggc ctcggtccc 540
caggaccagc gagcgagggg gacagtgtgt aggccctgct gagtgcctg cagcctttg 600
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actgtcacc cctaccagtt cccaagtcca tgtgtacccc gctcaccacg ggaacggccc 840
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```

<210> 25

<211> 927

<212> DNA

<213> Homo sapiens

<400> 25

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ctccgggtga cgcggctgcg gtatgtgcgg atacaagcct tcgcggggtc ctgcctggcg 60
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cttttctctc tgccttttgc cagcgttggg ccggaccggg ccgagcggg ccgccggggc 180
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gaaacaagaa aaacagctgg aattagaaat taagaaaatg gccaagattg gtaataagga 360
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gaagatggct ggagcaatgt ctaccacagc aaaaacaatg caggcagtta acaagaagat 540
ggatccacaa aagacattac aaacaatgca gaatttccag aaggaaaaca tgaaaatgga 600
aatgactgaa gaaatgatca atgatacact tgatgacatc tttgacgggt ctgatgacga 660
agaagaaagc caggatattg tgaatcaagt tcttgatgaa attggaattg aaatttctgg 720
aaagatggcc aaagctccat cagctgctcg aagcttacca tctgcctcta cttcaaaggc 780
tacaatctca gatgaagaga ttgaacggca actcaaggct ttaggagtag attagtcaaa 840
agaagtcata ctattttgct tactttataat tatgtagtat aaaccaagca cagtgcagat 900
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```

<210> 26

<211> 468

<212> DNA

<213> Homo sapiens

<400> 26

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cccactaata gggaaacgtga gctgggttta gaccgtcgtg agacaggtta gttttaccct 120
actgatgatg tgttgttggc atggtaatcc tgcctcagta gagaggaacc gcaggttcag 180
acatttgggt tatgtgcttg gctgaggagc caatggggcg aagctatcat ctgtgggatt 240
atgactgaac gcctctaagt cagaatcccg ccaggcgga acgatacggc agcgccggcg 300
agcctcgggt ggctcggat agccgggtccc ccgctgtccc ccgcccggcg gccgcccccc 360
cctccacgcg ttccgcgcgc gcgggagggc gcgtgccccg ccgcgcgccg ggaccggggg 420
ccggtgcgga gtgccttcg tcctgggaaa cggggcgcgg ccggaag 468

```

<210> 27

<211> 488

<212> DNA

<213> Homo sapiens

<400> 27

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ggcttctctga ccttgggcta cggctgacgc ttttttgtgg tgtactccgt gccatcatgt 60
ccgtcctgac gccgtgtgtg ctgcgggggt tgacaggctc ggcccggcg ctcccagtc 120
cgcgcgccaa gatccattcg ttgccgcgg aggggaagct tgggatcatg gaattggccg 180
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tggagaccta caggaggcca gagtgaaggc gtcgcttctg tccctcacac tgtgacctga 300
ccagcccac cgcccatcc tggcatgtt actgcattg tggccggcct cccctggatc 360
atgtcattca attccagtca cctcttctgc aatcatgacc tcttgatgtc tccatggtga 420

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cctccttggg ggtcactgac cctgcttggg ggggtccccc ttgtaacaat aaaatctatt 480
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<210> 28

<211> 1502

<212> DNA

<213> Homo sapiens

<400> 28

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 gcaccgcgcc cggcctcgca ggtcttttta cattgagaaa actaaaatcc agagatctgc 180
 cgacacccca ggccatcgag cccagggcca tcgtgcagca ggtcccagcc cccagtcgaa 240
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 gtatgaggtt tccagccagc gcttcaagtc ctccgtatcc agacgggtaca atgacttcgt 420
 ggtcttccag gagatgctcc tgcacaagtt cccctaccgt atggtgcctg cctgcccacc 480
 caagagaatg ctgggagctg acagggagtt catcgaggcc aggaggagag cctgaagcg 540
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 ggacgaattc ctgaactgta agctggctac cagggccaag gacttctctc cagctgacat 720
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 cgacctgagg cccaagctca gctgcctctt tgcgggacca cacagcacc tgacccacc 1440
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<210> 29

<211> 503

<212> DNA

<213> Homo sapiens

<400> 29

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 gacctcgggt gatctgcctg cctcggcctc ccaaagtgtc gggattacag gcgtgagcca 420
 ctgtgcctgg ctgaaaatga ttttttaaaa gtgttccagg aggaaatgga aagggcatag 480
 gggagtaaga aagtggaaat agg 503

<210> 30

<211> 514

<212> DNA

<213> Homo sapiens

<400> 30

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 ctggctgtaa gtggtctccg tcctgtccag gccaggccc agagcgattg cagttgctct 120
 acggtgagcc cgggcgtgct ggcagggatc gtgatgggag acctggtgct gacagtgtct 180

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attgccctgg ccggtgtaatt cctggggccgg ctgggtccctc ggggggcgagg ggctgcggag 240
gcagcgaccc ggaacacagcg tatcactgag accgagtcgc cttatcagga gctccagggt 300
cagaggctcg atgtctacag cgacctcaac acacagaggc cgtattacaa atgagcccga 360
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tcattccaac tcctaccgcg atacagaccc acagagtgcc atccctgaga gaccagaccg 480
ctccccaata ctctcctaaa ataaacatga agct 511

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<210> 31

<211> 581

<212> DNA

<213> Homo sapiens

<400> 31

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ggagggtactg gaggtcatgg tgggtgggtgga ggtgatagtg gtgaagggtga tggagggtgg 180
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tgactgtgcc actgcactcc aaccagggtg acggagcgag accctgtctc ttaaaatatt 420
ttttttacag tgcattttca tgtgtttcaa tctcctagtg tccctgcca aaatatatta 480
atctgaatca aatcatgggg aaattatgag acaaatcagg tcaaaagaca gtttacaaaa 540
cagttggcct gaacttttca aaactgtcaa catgttcaaa g 581

```

<210> 32

<211> 550

<212> DNA

<213> Homo sapiens

<400> 32

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tccgtgccat catgtccgtc ctgacgcgcg tgctgctgcg gggcttgaca ggctcggccc 120
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tcattggaatt ggccgttggg cttacctcct gcttcgtgac ctctcctctg ccagcgggct 240
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atgtctccat ggtgacctcc ttgggggtca ctgacctgc ttggtggggg ccccttgtta 480
acaataaaat ctatttaaac tttaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 540
aaaaaaaaag 550

```

<210> 33

<211> 1344

<212> DNA

<213> Homo sapiens

<400> 33

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aagccccaga ggggcaatga ctggtcacac ctttgagcaa aaagaacaaa ggagaagaaa 180
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acaaaggcct cccagccccc atcgagaaaa ccatctccaa aaccaaaggg cagccccgag 900
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cgggtaaatg agtgccacgg ccagcaagcc cccgctcccc aggctctcgg ggtcgcgcga 1260
ggatgcttgg cactgacccc gtgtacatac ttcccgggca cccagcatgg aaataaagca 1320
cccagcgctt ccctgggccc ctgc

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<210> 34

<211> 496

<212> DNA

<213> Homo sapiens

<400> 34

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tttttttttt ttttttttga tttacaacaa gtttttttta taagaaatgg gcaaagccag 60
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gtttgagcct ccacaaataa tgcaaccaag ttttacattt ttaacagccc ttctacatac 180
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cctccactac ccagcaaaact acagagagga tggagtgtaa tatgagcagt acagagtctt 360
aatgcaattc atgaggacca cttagtcctt acatgaatct ggttgctaac atttctatta 420
tattgtgaca atgactcccg actgttattc tctgtgagaa atggggggag taaattctta 480
ataaaagact tagaaa

```

<210> 35

<211> 478

<212> DNA

<213> Homo sapiens

<400> 35

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cgcatggacg aggcctcggga taacgcctgc aacgacatgg gtaagatgct gcaattcgtg 180
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actgccaggg gaggaaggcc cttgatgttc cagacaataa taaatgcgcc tgtgactg 478

```

<210> 36

<211> 811

<212> DNA

<213> Homo sapiens

<400> 36

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ttgtcctgat actgctggtg ctgggctggg tcagaccttc cctgggcaag gaatcccggg 120
ccaagaaatt ccagcggcag catatggact cagacagttc cccagcagc agctccacct 180
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cctttgtgca cgagcccctg gtatgtgtcc agaattgtctg ttccagggaa aaggctacct 300
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ggactctacc taaggtcaga gcagcgagat accccacctc cctcaacctc atcctctcca 540
cagctgcctc ttccctcttc cttccctgct gtgaaagaag taactacagt tagggctcct 600
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gagtggtgtg tgaggtgggc cccatgttaa cccctccact ctttctttca ataaaacgcg 720
gttgncccc caaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 780
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa g

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<210> 37
 <211> 409
 <212> DNA
 <213> Homo sapiens

<400> 37
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 ccctggcatg ggagcgtggg gacggggctg gccttgggag gagcggcagg ggcatcacct 120
 ctttctgctg cttctccctg ctccctacct caagggcctg ggggctgccc agctgcctct 180
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 taaagcaata cgtgtttgcc aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 360
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<210> 38
 <211> 670
 <212> DNA
 <213> Homo sapiens

<400> 38
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<210> 39
 <211> 1095
 <212> DNA
 <213> Homo sapiens

<400> 39
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<210> 40
 <211> 847

<212> DNA

<213> Homo sapiens

<400> 40

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ttagaaa
847

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<210> 41

<211> 764

<212> DNA

<213> Homo sapiens

<400> 41

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tacatcacta ggtttaacaa ttactagcat tcttcatgcc aaagatctta aaggacatcc 720
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764

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<210> 42

<211> 788

<212> DNA

<213> Homo sapiens

<400> 42

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ttacaggcgg gagccactga gccagccaa gacttcagtg ttgactgctt tggaggcaca 180
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tatggactca tcatagccag ttttctttt gaagttggaa ctgatcaccg ttttgtcatc 360
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788

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<210> 43
 <211> 575
 <212> DNA
 <213> Homo sapiens

<400> 43
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<210> 44
 <211> 1290
 <212> DNA
 <213> Homo sapiens

<400> 44
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 ggccgtggac gggggccggg ccgaggccgc ggagctcgcg gaggcaaggc cgaggataag 180
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<210> 45
 <211> 814
 <212> DNA
 <213> Homo sapiens

<400> 45
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<210> 46

<211> 959

<212> DNA

<213> Homo sapiens

<400> 46

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<210> 47

<211> 1174

<212> DNA

<213> Homo sapiens

<400> 47

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<210> 48

<211> 1157

<212> DNA

<213> Homo sapiens

<400> 48

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<210> 49

<211> 2193

<212> DNA

<213> Homo sapiens

<400> 49

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<210> 50

<211> 651

<212> DNA

<213> Homo sapiens

<400> 50

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<210> 51

<211> 1204

<212> DNA

<213> Homo sapiens

<400> 51

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<210> 52

<211> 1541

<212> DNA

<213> Homo sapiens

<400> 52

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<210> 53

<211> 2384

<212> DNA

<213> Homo sapiens

<400> 53

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<210> 54

<211> 1254

<212> DNA

<213> Homo sapiens

<400> 54

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<210> 55

<211> 1127

<212> DNA

<213> Homo sapiens

<400> 55

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1127

<210> 56

<211> 968

<212> DNA

<213> Homo sapiens

<400> 56

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<210> 57

<211> 1002

<212> DNA

<213> Homo sapiens

<400> 57

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<210> 58

<211> 691

<212> DNA

<213> Homo sapiens

<400> 58

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<210> 59

<211> 943

<212> DNA

<213> Homo sapiens

<400> 59

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<210> 60

<211> 2399

<212> DNA

<213> Homo sapiens

<400> 60

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<210> 61

<211> 1516

<212> DNA

<213> Homo sapiens

<400> 61

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gcttcaggcc caggacgagg agggaggcgg ccattgtccc gagcggccga agcaggagat 180
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tcctgtgta ttctcc 1516

```

<210> 62

<211> 933

<212> DNA

<213> Homo sapiens

<400> 62

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ctctagcagt ggggtgaaggc ctgtgagtga ggaatgcctc tcaccagctg tgctgagct 60
gcagcactcc agccactgct gtctccttag ctgctcacat atggatactt tcacagttca 120
ggattccaact gcaatgagct ggtggaggaa taatttctgg atcatcttag ctgtggtcat 180
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acgaggcaag aaatgggaaa ttgccaaagg cctgaaacac aagcaagtag atgaagaaaa 300
gatgtatgag aatgttctta atgagtcgcc agttcaatta ccgcctctgc caccaggaa 360

```

```

ttggcctttct ctagaagact cttccccaca ggaagcccca agtcagccgc ccgctacata 420
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tgaagatgac tatgacgatg ttgaaatccc tgcaaatact gaaaaagcat ctttttgaag 540
cagccatttc ttcttttttg caaaactgaa gagggttcac acaacttatt ttaaaacaat 600
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gctctataag ataaagcact tcccaaacct tagatgaaga caccctgcg atcggtatgac 720
tgcagccaga ggagacacat ggggtgctcg ctctgaggac ttagaggggt cagccttgtg 780
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```

<210> 63

<211> 1232

<212> DNA

<213> Homo sapiens

<400> 63

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ccctggctgc ccaagagggt cagcagctct cccactgcac gactgtcccc gtgggagcct 180
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cggacgcccc accaaggggc tctgccctcc ctgccccacc gacaggctcc gccctccctg 540
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ccaaccccc ggcagcccg cagaggacgg gaggagacca gtccccacc cagccgtacc 1200
agaaataaag gcttctgtgc ttcccttttt tt 1232

```

<210> 64

<211> 1207

<212> DNA

<213> Homo sapiens

<400> 64

```

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gtaaaatcgg cttgttatct ccgtggcctg aattctacgc atattggtga agataggtgt 120
cgaacttggc tgggagaatg gctgcagatt tcctgcagcc tgaaagaagc tgagctgtct 180
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gggcatggg cttcacagca tggcacacat gtgggaactg cagacattcc tctcacagct 420
agaactgaaa caaacctct tgcctagggg ggtccgtgtg aggtgtcatc ctgtccccct 480
cataattact aatagctgga actggcagca gcctctactg ggcttttact gtgatgtgtt 540
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aaaaatcaag ttgttttgtt ttttgcacc ttcactggca tgggctaacc acttcttttt 780
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```

```

tgatgcagca gtccaactgt aactgacagt ggctgccttc tctgggccat ggatcacacc 1020
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gttgggttta gcttttgtgt gtgcatcagt gacttagagt tctgtaataa cttattgtaa 1140
atgcatgaag cactgttttt aaacccaagt aaagactgct tgaaacctgt tgatggaaat 1200
gactaag                                           1207

```

<210> 65

<211> 1279

<212> DNA

<213> Homo sapiens

<400> 65

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tctgaagagt gcagctgcct gaaccgagcc ctgccgaaca gctgagaatt gcactgcaac 60
catgagtgag aacaataaga attccttgga gagcagccta cggcaactaa aatgccattt 120
cacctggaac ttgatggagg gagaaaactc cttggatgat tttgaagaca aagtatttta 180
ccggactgag tttcagaatc gtgaattcaa agccacaatg tgcaacctac tggcctatct 240
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aatccagcaa gagcatgctg accaggcaga aatcagaagt ctggtcacct ggggaaacta 360
tgcoctgggtc tactatcaca tgggcccact ctcagacgtt cagatttatg tagacaagg 420
gaaacatgtc tgtgagaagt tttccagtcc ctatagaatt gagagtccag agcttgactg 480
tgaggaaggg tggacacggg taaagtgtgg aggaaccaa atgaaagagc gaaggtgtgc 540
tttgagaagg ctctggaaaa gaagccaaag aaccagaat tcacctctgg actggcaata 600
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gctcatctga agaaagctga tgaggccaat gataatctct tccgtgtctg ttccattctt 1080
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ttcagtaaag agcttactcc tgtagcgaaa caactgctcc atctgcggtg tggcaacttt 1200
cagctgtacc aaatgaagtg tgaagacaag gccatccacc actttataga ggggtgaaaa 1260
ataaaccaga aatcaaggg                                           1279

```

<210> 66

<211> 938

<212> DNA

<213> Homo sapiens

<400> 66

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atccagcatc tcagcagaaa actgcctgac atgaaaagtc ccctgaggaa ctgcatctgc 60
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aggcctgcct tcttctggaa ctggaagtgg gctatcacca tgggcaagcc cttgggtgca 180
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caggtcctt tcaacctcgc tgtccaggga cctgtcctt cttgcccgtg gggcttccat 720
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tgtgcttggt gccccaggaa cagccagaga ggacagtgcc ccaggaacag ccagagagga 840
cagtgccac tcacttcttg ttggcagcct cctgtgcagg aagtgccagc cgggcctcga 900
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```

<210> 67

<211> 1369

<212> DNA

<213> Homo sapiens

<400> 67

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gagcccttgt cagatgtgac agccaccctc ctcttttgact tcctggaggt gtgtgggaat 60
gccctcatga agcaatacca ggttcagttc tggaagatgc taattctcat caaagaggac 120
tactttccca gaattgaagc tatcacaagc tcaggacaga tgggtcctt catagcctc 180
aagcagttct tggagaaatg tttgcaacac aaggacattc ctgtcccaa gggctttctg 240
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gaggcaataa taaaggaact gaagacagct gtatttggga gaagtcattg cagattcaga 360
aatttgccat tatgtatttt tatgtattta tgccttgtga ctaggagagg agattttcat 420
gggtcacaaa attcttgagg gtcccttagt agatttggta gttccttaag agatccacgt 480
gataaaataa atggagttgg ctttcttgtt ttttgcaaaa gtgataaaag gtcttttagca 540
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tgtttgtggg ggagtgttca ctggtactct tgagtggcct gaagtgaacc attctatgaa 1320
ttgttaatta aggtgccaaa aaaaattaat aataaagctt ggtttttgc 1369

```

<210> 68

<211> 857

<212> DNA

<213> Homo sapiens

<400> 68

```

ggatgctgcg cctctccgaa cgcaacatga aggtgctcct tgccgccgcc ctcatcgcg 60
ggtccgtctt cttctgctg ctgccgggac cttctgcggc cgatgagaag aagaaggggc 120
ccaaagtcac cgtcaagggtg tattttgacc tacgaattgg agatgaagat gtaggccggg 180
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ctgcaactgg cccggtgctg gcactctggt gagcggaccc actccctca cattccacag 780
gcccattggc tcacttttgt aacagactcc taccaacact gaccaataaa aaaaaatggg 840
ggtttttttt tttttttt 857

```

<210> 69

<211> 824

<212> DNA

<213> Homo sapiens

<400> 69

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ggatgctgcg cctctccgaa cgcaacatga aggtgctcct tgccgccgcc ctcatcgcg 60
ggtccgtctt cttctgctg ctgccgggac cttctgcggc cgatgagaag aagaaggggc 120
ccaaagtcac cgtcaagggtg tattttgacc tacgaattgg agatgaagat gtaggccggg 180
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tcatgatcca gggcggagac ttcaccaggg gagatggcac aggaggaaag agcatctacg 360
gtgagcgctt ccccgatgag aacttcaaac tgaagcacta cgggcctggc tgggtgagca 420

```

```

tggccaacgc aggcaaagac accaacggct cccagttctt catcacgaca gtcaagacag 480
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ggaaggtgga gagcaccaag acagacagcc gggataaacc cctgaaggat gtgatcatcg 600
cagactgctg caagatcgag gtggagaagc cctttgccat cgccaaggag tagggcacag 660
ggacatcctt ctttgagtga ccgtctgtgc aggcctgtga gtccgccaca gggctctgag 720
ctgcactggc cccggtgctg gcatctgtgt gagcggaacc actccctca cattccacag 780
gcccatggac tcacttttgt aacaaactcc taccaacct gacc 824

```

<210> 70

<211> 928

<212> DNA

<213> Homo sapiens

<400> 70

```

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agacaacatt tgatcccaag aaaaccagaa tggaaacctt tcaactcaaa aactcagtta 120
taaaagtgcc catgatgaat agcaagaagt accctgtggc ccatttcatt gaccaaactt 180
tgaaagccaa ggtggggcag ctgcagctct cccacaatct gagtttggtg atcctggtac 240
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ccatggccct gccatgctct ccaaaccact ttttgagct ttctctagtt caagttcacc 900
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```

<210> 71

<211> 672

<212> DNA

<213> Homo sapiens

<400> 71

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caccaccacc aaaaaaaaaa aaagccctca gaaaatttct cacaaataag gcaactaatg 60
cctgatattc caaaatcctt tacaaaagga gatagttcta gtcaaggagt tttgggtatg 120
ttactttttt ttcttctttt tcttttcatc tgctccatc ttaagtgcaa tttcttcagc 180
tgtaagagct cccagtttct tattctttgc tttcttaacc ttttccttga tgctggccac 240
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gattttacca agtaaaacaa agaatatatg tttacaaaag aatatatgtt taaggcagtt 360
aacttcagag tattcttata attgaataat tgaaagggtg tcacagtata aaatataaaa 420
acacttgccct aaagcagtta gaaatttctt cagattaaga taaaacaaat cataaaatac 480
tttataatatt agtacaagta tacataaaaa tggcataaat ggcataattg aaccaattac 540
tggaattcaac tatattaaga ctatttctct aaatcctact tcagactaaa ttattttacc 600
tacattcttt tccatatttt ggaacttctg agtcattatt ttccatcttg cacattaaaa 660
taattttaaaa tt 672

```

<210> 72

<211> 518

<212> DNA

<213> Homo sapiens

<400> 72

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gtccacgctc ggagccatgc cgtccaaggc cccgctgcag tctgtgcagg tcttcggacg 60
caagaagaca gcgacagctg tggcgcaact gaaacgcggc aatgggtctc tcaagggtga 120
cgggaggccc ctggagatga ttgagccgag cacgctacag tacaagctgc tggagccagt 180
tctgcttctc ggcaaggagc gatttgcttg tgtagacatc cgtgtccgtg taaagggtgg 240
tggtcacgtg gccagattt atgctatccg tcagtccatc tccaaagccc tgggtggccta 300
ttaccagaaa tatgtggatg aggttccaa gaaggagatc aaagacatcc tcatccagta 360

```

```

tgaccggacc ctgctggtag ctgaccctcg tcgctgcgag tccaaaaagt ttggaggccc 420
tggtgcccgc gctcgctacc agaaatccta cggataagcc catcgtgact caaaactcac 480
ttgtataata aacagttttt gagggatttt aaagtccc 518

```

```

<210> 73
<211> 1519
<212> DNA
<213> Homo sapiens

```

```

<400> 73
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tcttcaaagg caacaatcgc tggaacaga gtgtagagct gtgcaagaaa gacagccttt 180
acaaggatgc aatgcagtat gcttctgaat ctaaagatac tgaattggct gaagaactcc 240
tgcaagtgggt tttgcaggaa gaaaaaagag agtgctttgg agcttgctctg tttacctgtt 300
acgatctttt aaggccagat gtcgtcctag aaactgcatg gaggcacaat atcatggatt 360
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<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<211> 2817

<212> DNA

<213> Homo sapiens

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<210> 78

<211> 2066

<212> DNA

<213> Homo sapiens

<400> 78

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<210> 80

<211> 1035

<212> DNA

<213> Homo sapiens

<400> 80

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<210> 81

<211> 1113

<212> DNA

<213> Homo sapiens

<400> 81

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<210> 82

<211> 1574

<212> DNA

<213> Homo sapiens

<400> 82

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<210> 83

<211> 1817

<212> DNA

<213> Homo sapiens

<400> 83

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<210> 84

<211> 1079

<212> DNA

<213> Homo sapiens

<400> 84

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<210> 85

<211> 1011

<212> DNA

<213> Homo sapiens

<400> 85

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<210> 86

<211> 549

<212> DNA

<213> Homo sapiens

<400> 86

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ccttagaaa 549

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<210> 87

<211> 1539

<212> DNA

<213> Homo sapiens

<400> 87

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<210> 88

<211> 1161

<212> DNA

<213> Homo sapiens

<400> 88

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<210> 89

<211> 1466

<212> DNA

<213> Homo sapiens

<400> 89

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<210> 90

<211> 826

<212> DNA

<213> Homo sapiens

<400> 90

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<210> 91

<211> 395

<212> DNA

<213> Homo sapiens

<400> 91

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<210> 92

<211> 772

<212> DNA

<213> Homo sapiens

<400> 92

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<210> 93
<211> 602
<212> DNA
<213> Homo sapiens
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<400> 93
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aa 602
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<210> 94
<211> 1085
<212> DNA
<213> Homo sapiens
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<210> 95
<211> 1143
<212> DNA
<213> Homo sapiens
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<400> 95
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<210> 96

<211> 2047

<212> DNA

<213> Homo sapiens

<400> 96

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<210> 97

<211> 2082

<212> DNA

<213> Homo sapiens

<400> 97

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<210> 98

<211> 1736

<212> DNA

<213> Homo sapiens

<400> 98

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<210> 99

<211> 1379

<212> DNA

<213> Homo sapiens

<400> 99

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<210> 100

<211> 1309

<212> DNA

<213> Homo sapiens

<400> 100

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<210> 101

<211> 1322

<212> DNA

<213> Homo sapiens

<400> 101

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<210> 102

<211> 1908

<212> DNA

<213> Homo sapiens

<400> 102

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<210> 103

<211> 1598

<212> DNA

<213> Homo sapiens

<400> 103

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<211> 1565

<212> DNA

<213> Homo sapiens

<400> 104

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<210> 105

<211> 2314

<212> DNA

<213> Homo sapiens

<400> 105

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<210> 106

<211> 1259

<212> DNA

<213> Homo sapiens

<400> 106

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<210> 107

<211> 1990

<212> DNA

<213> Homo sapiens

<400> 107

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<211> 1021

<212> DNA

<213> Homo sapiens

<400> 108

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<211> 1603

<212> DNA

<213> Homo sapiens

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<210> 110

<211> 1456

<212> DNA

<213> Homo sapiens

<400> 110

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<210> 111

<211> 1615

<212> DNA

<213> Homo sapiens

<400> 111

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<210> 112

<211> 621

<212> DNA

<213> Homo sapiens

<400> 112

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<210> 113

<211> 1331

<212> DNA

<213> Homo sapiens

<400> 113

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<210> 114

<211> 1590

<212> DNA

<213> Homo sapiens

<400> 114

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<210> 115

<211> 2410

<212> DNA

<213> Homo sapiens

<400> 115

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<211> 984

<212> DNA

<213> Homo sapiens

<400> 116

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<210> 117

<211> 1048

<212> DNA

<213> Homo sapiens

<400> 117

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<210> 118

<211> 1965

<212> DNA

<213> Homo sapiens

<400> 118

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<210> 119

<211> 574

<212> DNA

<213> Homo sapiens

<400> 119

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<210> 120

<211> 1334

<212> DNA

<213> Homo sapiens

<400> 120

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<210> 121

<211> 989

<212> DNA

<213> Homo sapiens

<400> 121

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<210> 122

<211> 2085

<212> DNA

<213> Homo sapiens

<400> 122

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<210> 123

<211> 1816

<212> DNA

<213> Homo sapiens

<400> 123

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<210> 124

<211> 2222

<212> DNA

<213> Homo sapiens

<400> 124

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<210> 125

<211> 1252

<212> DNA

<213> Homo sapiens

<400> 125

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<210> 126

<211> 981

<212> DNA

<213> Homo sapiens

<400> 126

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<210> 127

<211> 1343

<212> DNA

<213> Homo sapiens

<400> 127

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 <213> Homo sapiens

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 <212> DNA
 <213> Homo sapiens

<400> 131

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<211> 1225

<212> DNA

<213> Homo sapiens

<400> 132

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<212> DNA

<213> Homo sapiens

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<211> 2108

<212> DNA

<213> Homo sapiens

<400> 134

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```

gaggactgga agaaggggga caccttctcc tgcattgttg gccacgaggc cctgccgctg 1380
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gttgtcatgg cggaggtgga cggcacctgc tactgagcgg cccgcctgtc cccacccctg 1500
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```

<210> 137

<211> 1362

<212> DNA

<213> Homo sapiens

<400> 137

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ataatttgga gaaggccagg cagaataaat gtgtggggag ggtgcagcca gtggcctcct 180
cagctgtttt tcatgagtct tgaatgtaga aggaggggga gagaatagcg agaggggaatt 240
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gttccatttg ggaactgccc ctccccatt ctgggtccag tgtcccatcc attgcagagg 360
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<210> 138

<211> 1505

<212> DNA

<213> Homo sapiens

<400> 138

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caaagtcttg ctttgtcgcc cagggtgaag tgcagtgttg cgatctcgac tcaactgcagc 180
ctccaccttt tgggttcaag agattctcat gctcttttag tagagacagg ggggtttatc 240
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cagaatgtgt tgctcagttga taagataggc ttgatttgtt actggtctta atgagggtct 720
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```



```

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tcaatgtcac agcagaaacc ttgcagttta ccagatgacc cagtaaagga accaacaccc 1440
acaaccggtt ccacatgggc agttaattcc agtcactgat gagaagggaa aagggtctctt 1500
agaaa                                           1505

```

<210> 139

<211> 1579

<212> DNA

<213> Homo sapiens

<400> 139

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aagtgcattg gaggtagtag attattttat catctctgag gaagagatta attaattctg 180
gtgttatgat tctaatacac tctccatac tcaactacaat gggttggtta tctgtacta 240
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gcctggactt cggtacatgg tatcatactg ctactcatct ctcagtgtct tgtctgtcat 540
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tttctattca tccattttcc attgtatcta taatttttagc aaaaaaaat ttcttgactt 660
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gagagagagg agagagagg                                           1579

```

<210> 140

<211> 1641

<212> DNA

<213> Homo sapiens

<400> 140

```

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ccagtgtcag gtgcagctgg tgcagtctgg gggaggcgtg gtccagccgg ggggttccct 180
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ccccaggag ccactcagtg tgacctggag cgaaagcgga cagggcgtga ccgccagaaa 660
cttcccaccc agccaggatg cctccgggga cctgtacacc acgagcagcc agctgacct 720
gccggccaca cagtgcctag ccggcaagtc cgtgacatgc cactgaagc actacacgaa 780
tccagccag gatgtgactg tgccctgccc agttccctca actccaccta ccccatctcc 840

```

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gcgggtaaac ccacccatgt caatgtgtct gttgtcatgg cggaggtgga cggcacctgc 1560
tactgagccg cncgnnctgt cccacccctt gaataaaactc catgctcccc caaaaaaaaaa 1620
aaaaaaaaata aaaaaaaaaa a 1641

```

<210> 141

<211> 1492

<212> DNA

<213> Homo sapiens

<400> 141

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cttccccctt ctgctgctga ggtagggatt ggggggtcag aacccactca cttttgcttg 60
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<210> 142

<211> 1816

<212> DNA

<213> Homo sapiens

<400> 142

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ctcaagatac caaagacgcc gttcaggagg attgcctcat ctctgaatca cttttacctt 180
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gcctctctca gttcttcaag gatttgaaca tgatgctaata tagtttgaga gcacataggg 360
ttttcttggg gaggcacata acagtttttt attctgggaa gagccagttc cccactcaac 420
atattcaata ggcacagaga ccaggggacc acggaaagct ccagtgaacc ccgacccccg 480

```

```

ccaactcttc ctaacaacat ttgactcctt gccctcctcc gttggaactg tgcttcctgg 540
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tcaactctcca cagtcatttc atcggcaggt cctgccagct ctgcctccca aacacattga 720
gactgtctgc tgctttctgc ctgcaccacc aacctagtc tagtgacctt tgaccagggg 780
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<210> 143

<211> 2230

<212> DNA

<213> Homo sapiens

<400> 143

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agaatagggt gaggggtgtg gtggggcgta gatgggggtg tgctgttgat atcatccctt 60
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tataaagcac agttatacat acagcatata tgcagacata taatttgtct atgggtattaa 180
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agtgnntgtg gtgagccgag atcgcgacaca ttgtactcca gcctgagcaa caagagcgag 2220
actccatctc                                     2230

```

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<210> 144
<211> 1025
<212> DNA
<213> Homo sapiens

```

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<400> 144
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ggtgggcccc tgaggcacct gcacattgtc agtattgaca atggccccag tgatgttgg 180
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accag                                     1025

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```

<210> 145
<211> 994
<212> DNA
<213> Homo sapiens

```

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<400> 145
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<210> 146
<211> 1913
<212> DNA
<213> Homo sapiens

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<400> 146

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<210> 147

<211> 982

<212> DNA

<213> Homo sapiens

<400> 147

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<210> 148

<211> 1078

<212> DNA

<213> Homo sapiens

<400> 148

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<210> 149

<211> 1310

<212> DNA

<213> Homo sapiens

<400> 149

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<210> 150

<211> 858

<212> DNA

<213> Homo sapiens

<400> 150

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gcttccccat ccgcccgtacc ctgcaatata tgagccaggg gaacgtgggt ttcaaggact 180

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<210> 151

<211> 1154

<212> DNA

<213> Homo sapiens

<400> 151

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<210> 152

<211> 2290

<212> DNA

<213> Homo sapiens

<400> 152

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<210> 153

<211> 446

<212> DNA

<213> Homo sapiens

<400> 153

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<210> 154

<211> 2732

<212> DNA

<213> Homo sapiens

<400> 154

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<210> 155

<211> 582

<212> DNA

<213> Homo sapiens

<400> 155

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aatacagaaa ttagccgggt gtggtggtg gtgtctgtag tccagctac tcgggaggct 480
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<210> 156

<211> 731

<212> DNA

<213> Homo sapiens

<400> 156

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cgcagctcag taagaaaatg cttttgagct ataaccagg ttgagtacca ttggtacatt 180
agaatcacag agtcagattt tacttttttg ggcagtggta ggtgtggata aagtatctcc 240
agtccagatt tcttgtagtg gtgctatttg gtttgccggg ggagatttat gacctcagg 300
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agctgtgtga ctttgggaaa attacttaac ctttctgggc cttagctttg ctacctattc 420
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atagtatatg ggaaggtgtt taaaaagttg tgagttctac acgacttaaa aatgccagta 540
ttatgaatgc aaccattctt tgttgtcatt tgggtagtcg tggatagcgt ggtggttagga 600
gagccactat cggagcaaga ctgttccaga gggtaaaaca cacgcgtgcc tgtagagcag 660
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<210> 157

<211> 868

<212> DNA

<213> Homo sapiens

<400> 157

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tgttcatagg ttctcaacc tcacccccca ccacgggaga ctagagctgc aggatcccag 780
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<210> 158

<211> 857

<212> DNA

<213> Homo sapiens

<400> 158

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<210> 159

<211> 1456

<212> DNA

<213> Homo sapiens

<400> 159

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agacaccaca gctgatttct tctgaccac tatgccact gactccctca gtgtttccac 180

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<210> 160

<211> 585

<212> DNA

<213> Homo sapiens

<400> 160

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cccatctccc aagacctcat tgtcagctcc acccaacagt tcttcaactg agaaccgaa 480
aacagtggcc aaatgtcagg taactcccag aagaaatgtt ctccaaaaac gccagtgat 540
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<210> 161

<211> 592

<212> DNA

<213> Homo sapiens

<400> 161

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gttgagtatg atctgaacca gaaataaagg ctttccccag ttctttaaat tcattcagtt 180
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<210> 162

<211> 3760

<212> DNA

<213> Homo sapiens

<400> 162

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gaatgtatat acatgtcacc atggattgga actgttttgc atatcagggg aatcatagcc 240
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<210> 163
 <211> 766
 <212> DNA
 <213> Homo sapiens

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<400> 163
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<210> 164
 <211> 3999
 <212> DNA
 <213> Homo sapiens

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<400> 164
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<210> 165

<211> 1474

<212> DNA

<213> Homo sapiens

<400> 165

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<210> 166

<211> 366

<212> DNA

<213> Homo sapiens

<400> 166

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<210> 167

<211> 1926

<212> DNA

<213> Homo sapiens

<400> 167

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cagcccgccc actcagactt gtttgaagct gcactggcag cttttttgtc tcttttgggt 1860
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gttgcc 1926

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<210> 168
 <211> 1278
 <212> DNA
 <213> Homo sapiens

<400> 168
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<210> 169
 <211> 325
 <212> DNA
 <213> Homo sapiens

<400> 169
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 gtttgcaaca tgtctgtacc aagatggtac tttgccttaa ccgtttatat gcactttcat 180
 ggagactgca atacgttgct atgagcactt tctttatcct tggagtttaa tcctttgctt 240
 catctttcta cagtatgaca taatgatttg ctatgttgta aaatccttgt aaaaaatttc 300
 tatataagaa tattttgaaa atctt 325

<210> 170
 <211> 594
 <212> DNA
 <213> Homo sapiens

<400> 170
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 aacatggcaa aaatctccag ccctacagag actgagcgtt gcacgcagtc cctgattgct 180
 gtcttccaga agtatgtctg aaaggatggt tataactaca ctctctccaa gacagagttc 240
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 cttgacgcga tgatgaagaa actggacacc aacagtgtat gtcagctaga tttctcagaa 360
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<210> 171

<211> 1061

<212> DNA

<213> Homo sapiens

<400> 171

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cctcctcctg ttgcttgaaa taatgatgat ataaaggctg gatttgaggt ttgtatcccc 1020
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<210> 172

<211> 347

<212> DNA

<213> Homo sapiens

<400> 172

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actctcacag gtagaatgaa ctgtgtactg gccacatatg gaagcattgc attgattgtc 180
ttatatttca agttaaggta caaaaaaact ccagctgtga aagcaacata aatggatttt 240
aaactgtcta cggttcttaa cctcatctgt taagttccca tgcttgaga agctaattgcc 300
aactcatcat gtgataattc aatttgtaca ataaattatg aacctgc 347

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<210> 173

<211> 694

<212> DNA

<213> Homo sapiens

<400> 173

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gctttttcca taaagtttag aaatcgtaaa aaac 694

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<210> 174

<211> 771

<212> DNA

<213> Homo sapiens

<400> 174

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tgttcattcc ggcaaatgtg gttctgaaat ggtatgaaaa ctttcaaaga cgactagcac 720
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<210> 175

<211> 552

<212> DNA

<213> Homo sapiens

<400> 175

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tattttaaaa gc 552

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<210> 176

<211> 401

<212> DNA

<213> Homo sapiens

<400> 176

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<210> 177

<211> 396

<212> DNA

<213> Homo sapiens

<400> 177

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gatgaatatt tctaataaat gattgctgta atattc 396

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<210> 178

<211> 949
 <212> DNA
 <213> Homo sapiens

<400> 178
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 gttatccgct ggatctgctg ctcaagctac acgatgagcg tgtgttggtt gctttcggcc 180
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 tcaggtgtga gctctttgac cagaacctga agctagctct ggaggtggca gagaaggctg 660
 gaacttttgg acctgggtca taggctgaac ctgttatgga ccccaaaatt ctgagagttc 720
 ctgcaacaag aatactgctg ttgacactcc agtggaaatc ccagcagcct tgtagtgca 780
 cttgaaagtg ggagaatgct gacctgatg acttgactg attcctgagc cttaacactg 840
 tgctctttcc ttctgtatat gccatggtct tactttccaa ctctgtacag atttatttat 900
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<210> 179
 <211> 1067
 <212> DNA
 <213> Homo sapiens

<400> 179
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 gatggcagat tttttgaaag gactgcctgt ctacaacaaa agcaatttta gtcgatttca 180
 cgcggactcc gtgtgcaaag cctcgaaccg acggccctca gtctacctgc ctaccgcgca 240
 gtaccctgtc gaacagatca tcgtgacaga aaagacaaac atcctcctgc gctacctgca 300
 tcagcaatgg gacaaaaaga acgctgccaa gaagagagac caggagcaag tggagctgga 360
 aggcgagagc tccgcacctc cccgcaagggt ggccgaggac gacagcccag acatgcacga 420
 ggacacttaa gactctcaac tccacaggcg cctcctgcca ggtctgctcc tcggtcgccc 480
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 cgggccagtt ccccgattcc tgccccagct tctccagaga accagagtgt gtctgtgaga 780
 gtctctagcg ggggctttac tgtggccggg cgacaggggc gggcccgggg tggcctgacc 840
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 tcttgcccca ccttcgcccc gaactttccc atgccagac ctactcagc gtgcacgcac 960
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<210> 180
 <211> 675
 <212> DNA
 <213> Homo sapiens

<400> 180
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 ctctgaagaa gtcttaggaa aagtcctcag tgctgtgggc agtgcccagc tactgatgtc 180
 ccagaaattc cagcagttcc ggggcctctg tgagcaaaac ttgaacctg atgccaacct 240
 acgccccaca gcccaggacc tggcagggtt ctgggacctg ctacagctgt ccacgagga 300
 tatcagcatg aagttcgatg aactctacca cctcaaggcc aacagctggc agctggtgga 360
 gacccccgag aagagggaag aagagaagaa accaccccct ccggtcccaa agaagccagc 420
 caaatccaag ccggcagtga gccgcgacaa ggcctcagac gccagcgaca agcagcgcca 480

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ggaggcccgcc aagagactcc tggcggccaa gcgggcagct tctgtgcggc agaactcagc 540
caccgagagc gcagacagca tcgagattta tgtcccggag gccagacca ggctctgaga 600
ccatgcagga ggaaagaaac gatttttaaat cattaaaaac acaaaaacta agtgcgaacg 660
gaacagagtt ttcac 675

```

<210> 181

<211> 581

<212> DNA

<213> Homo sapiens

<400> 181

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acttccggcc agatcgccgg atttccgctg agtgaccctt acaagtcctt cttgatcctg 60
aactggggtta ggtgccgctg ttgctgctcg tgttgaatct agaaccgtag ccagacatgg 120
gactggagga cgagcaaaag atgcttaccg aatccggaga tcctgaggag gaggaagagg 180
aagaggagga attagtggat cccctaacaa cagtgcgaga gcaatgcgag cagttggaga 240
aatgtgtaaa ggcccgggag cggttagagc tctgtgatga gcgtgtatcc tctcgatcac 300
atacagaaga ggattgcacg gaggagctct ttgacttctt gcatgcgagg gaccattgcg 360
tggcccacaa actctttaac aacttgaaat aaatgtgtgg acttaattca cccagtcctt 420
catcatctgg gcatcagaat atttcttat ggtttggat gtaccatttg tttcttattt 480
gtgtaactgt aagttcacat gaacctcatg ggtttggctt aggctggtag cttctatgta 540
attcgcaatg attccatcta aataaaagtt ctatgatctg c 581

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<210> 182

<211> 931

<212> DNA

<213> Homo sapiens

<400> 182

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gggatctgga gcagcagctg caggatgagc tcctggagggt ggtctcagag ctccagacgg 60
ccaagaagac gtaccaggca tatcacatgg agagcgtgaa tgccgaggcc aagctccggg 120
aggccgagcg gcaggaggag aagcgggcag gtccgcacag tcgaagccac acctggtctg 180
ttttctgtgc actgtagcct tagtgtcacc tttcttcttg tgtctcctta tggtaactc 240
cagcgggttc cttttttatc atttctactg aagttgggaa attcaacccc agaaattgac 300
agatgaaagg agacaatggg tgtgtaggga gatggagaaa atgcttaatc tgaggatgag 360
acagggtttt ttcatttttg tgggggctag aaaaaacata aaatgaggca gttaaataat 420
aatagttaat gaagggtgtgc tacagaaaat aatctggtgt tcttgctaac tttgcccttc 480
actgtttgctt aattgtgaac agccaaaagc tatatgttat ggcttattgt gtgaaggtaa 540
ctaagaagtg gtgttccatg acttcagagt acatccatgc ggagtccatt atttgagttt 600
gacatttaaat aactttgctg gaaaatctgt aaaaaagaaa aacaagtttg ctagtgacta 660
agccccgcat atgtgagtga aagtacttca ggcacgctgc ctcttggtaa cagctatgca 720
gggaggggagg acccactctg ctacacttct gatccccctt ggttttacta cccaaatcta 780
aatagatact ttgataata gataactgct cttttactaa gacatagtct ctacctatag 840
aaatgtattt tgaaaacact tattttacac agcaattttg tatccattta aactaacctt 900
ttatcaataa agcactattg tttagatatt c 931

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<210> 183

<211> 1016

<212> DNA

<213> Homo sapiens

<400> 183

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cctcttgatc tggccatata tacattaaat gctattttct tcaagcagtg agacaaagct 120
gagagacgat aggttttaaag attggttaca aattctgatg aagactggtc cttgaagtct 180
ttgggctggt acatggccct ttggaagcaa taggtcatca ctgtgaacaa cttctgtagg 240
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ttgctgttta atgtaagttg gtcaagggtc ttattgagca gaagaaactt gggaaatgaa 360
agcactgtta ctgggaccac agtttttgag cctctgctgt caatggaac agacacttca 420
aaaaatgctc ccacggaggc tcagaagaga tgaaaagaga ggaagaggag ctgaaaagat 480
gaaaaaaaaa aaaaaagaaa aaaaaggaaa atcaaggcct tctacaaaac aaaaactttg 540
gacagcatct tgattcctcc tccacctctt ccatattagc cttgagactc tttctgaaaa 600

```

```

taaaaaaggag ggagttcttc cttgtcataa ttatcccatc cttagtgtaa tcactatcca 660
aaattagtctt ggaaccttctt aaatcaattc catagtctctt gggcaatatt ttgagaaatt 720
cgcttaaatgt gacttgacag aatctctggg ctggatggta ttagagcgat tacagtagta 780
ccaacttcag gccaaagccc aaagtgtaaa aatcgtgttt ctgggctaca ttctgttatg 840
ccagagttta tatagtgtg ggtaacatgt aagccttttt gaaatgaagt ctcctaggaa 900
gattgaaaac atcagcaatc ccttgatacc accagcaatc catctaccac ctgtacattt 960
tcactacccc aatatnccan ctccttaaga gaaaggaatt tggttccctg tcacac 1016

```

<210> 184

<211> 413

<212> DNA

<213> Homo sapiens

<400> 184

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gtttcatctt ctgggattat tgttcaagac cagcctctaa tgggaggtga aacggtagca 60
tgggtctcaac acctttcttc tgaactgtaa tacatatcac aaaaagtaca tccataattc 120
agggcaattg tcagtctttt tagagaaggg gccagggtgg aacaatccca gtgagtaaat 180
tatttctcag cgtggacttc tctgcatgtc gggcttaagg tcaccagccg ggcagggtgg 240
aaggagcttg cctctttgag aaaccaagga gtcccagtg tctgttacca tttgggttatg 300
acttctaaag agccaaatgc tattccttca agcctgtttt gcaggcagaa aataccagca 360
gtgtcattta ggggttcctt tgatgatgac tactgtctgt aactgacctc agc 413

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<210> 185

<211> 961

<212> DNA

<213> Homo sapiens

<400> 185

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acccccctata tataaatata tgtaatcaat ttcttcaaat agcttgctta catgataatc 120
aattagccaa ccatgagtca tttagaatag tgataaatag aatacacaga atagtgtatg 180
aattcaattt aaaaaatcac gttagcctcc aaaccattta attcaaatga acccatcaac 240
tggtatgccaa ctctggcgaa tgtaggacct ctgagtggct gtataattgt taattcaaat 300
gaaattcatt taaacagttg acaaactgtc attcaacaat tagctccagg aaataacagt 360
tatttcatca taaaacagtc cttcaaaca cacaattgtt ctgctgaaga gttgtcatca 420
acaatccaat gctcacctat tcagttgtct tgtggtcagt gtggctgcat agcagtggat 480
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attgctttgt gtgcgacagg gaggaagttt caataaagca gcaacaagct tcaaaaaaaaa 960
g 961

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<210> 186

<211> 712

<212> DNA

<213> Homo sapiens

<400> 186

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tgccaacatg gtgttcaggc gcttcgtgga ggttggccgg gtggcctatg tctccttttg 60
acctcatgcc ggaaaattgg tcgcgattgt agatgttatt gatcagaaca gggctttggg 120
cgatggacct tgcactcaag tgaggagaca ggccatgcct ttcagtgca tgcagctcac 180
tgatttcac ctaagtttcc cgcacagtgc ccaccagaag tatgtccgac aagcctggca 240
gaaggcagac atcaatacaa aatgggcagc cacacgatgg gccaaagaag ttgaagccag 300
agaaaggaaa gccaaagatga cagattttga tctgttttaa gttatgaagg caaagaaaaa 360
gaggaaacaga ataatacaga atgaagttaa gaagcttcaa aaggcagctc tctgaaagc 420
ttctcccaaa aaagcacctg gtactaaggg tactgtctgt gctgtctgtc ctgtgtctgc 480
tgctgtctgt gctgtctgta aagttccagc aaaaaagatc accgccgcga gtaaaaaaggc 540

```

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tccagcccag aaggttctctg cccagaaagc cacaggccag aaagcagcgc ctgctccaaa 600
agctcagaag ggtcaaaaag ctccagccca gaaagcacct gctccaaagg catctggcaa 660
gaaagcataa gtggcaatca taaaaagtaa taaaggttct ttttgacctg tc 712
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<210> 187

<211> 391

<212> DNA

<213> Homo sapiens

<400> 187

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ggaaacctct gcgccatgag agccaagtgg aggaagaagc gaatgcgcag gctgaagcgc 60
aaaagaagaa agatgaggca gaggtccaag taaaccgcta gcttggtgca ccgtggaggc 120
cacaggagca gaaacatgga atgccagacg ctggggatgc tggtagaagt tgtgggactg 180
catgctactg tctagagctt gtctcaatgg atctagaact tcatcgccct ctgatcgccg 240
atcacctctg agacccacct tgctcataaa caaaatgcc atgttggtcc tctgcctctg 300
acctgtgaca ttctggacta tttctgtgtt tttttgtggc cgagtgtaac aaccatataa 360
taaatcacct cttccgctgt tttagctgaa g 391
```

<210> 188

<211> 717

<212> DNA

<213> Homo sapiens

<400> 188

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aacattttcc cccactcct cccttgatct ttttggtttt actttaatta agccctgcga 60
gaatgctgga taaatgcctt gaagttagca ggggtgattt ttttagcgaa tatgatttgc 120
atgtcttgcc aggagttaag cggcctctgg ggtgttgggg aaatacttta tttct*ttca 180
tttatttttt gtggggcggg gataggggag ggcattgaag ttctacaatt ctggaatagt 240
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atctatgcgt gtcattttaa gaaaagtgtc agaacaagca attggcttag atatacaatc 360
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atgttttttag ccagtggaga gataataaac cctgactgta gaaggtgtgt tttcatgcaa 660
actatacttc tgagcttggt aactttcta tatatcttaa taaatatatt ttattac 717
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<210> 189

<211> 288

<212> DNA

<213> Homo sapiens

<400> 189

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caaaaagcat tgatgaaaaa gcaaaagggt atgtatgtat atgagaaaat taattgtacg 120
atatcattcc agtacgtttt gttgtacatt ttagtcttgt ttactttctc ttcatgttta 180
agaggatgag aactgtacag tttccagcta gttaccata ttagagaaga aataagagag 240
tattagaaga aaacaggaga gaaagaacat ttgtgaattg cagttgtc 288
```

<210> 190

<211> 1001

<212> DNA

<213> Homo sapiens

<400> 190

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gagagatatg tcaagtcttg ttacagaaa aagcaaagga aaccgttctc aagcgggaag 60
aaacaggcag ccaagtcgaa agaggagcta gctcaggaaa agaagaagga gctggaaaag 120
cgtctgcagg atgtcagcgg gcagctgagc agcagcaaga agcccgcccg gaaagagaag 180
cccggctcag caccctcagg gggcccgtcc aggctcagca gcagcagctc ctccgagtct 240
gggagcagca gctccagcgg gtccagctct gacagcagtg actcagaatg aactggcttc 300
ggacagaaca ggacagatgg atgtcgcaca cgccgagact ctgccgtacc cctctgttgt 360
```

```

tcatattact acttctgttc catggtgtgc aggtctgcct cctaattcag tgttatgata 420
tcttccagtt tttgctttca taggtcagag atctatcttg tgtgtggcgt tagacttgat 480
gagaaggtgt gaactctgca gaaagtctct tcttcatcac tgaattcagt cacttgaga 540
tgacaacttc aaatgctaac ccgatgacct cagaaaacag tgtgagattc gtaccgaaga 600
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```

<210> 191

<211> 1644

<212> DNA

<213> Homo sapiens

<400> 191

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ttttgtgaaa aacagggaca gacagccagg tacagagact cacacctgta ctcccaacta 180
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aaaagaaaaa tagggatagg ttttcttcc tagcccagta gagtttgacc tcattagtat 360
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ccaagaactt aggttgaatc ttag 1644

```

<210> 192

<211> 2231

<212> DNA

<213> Homo sapiens

<400> 192

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ctacttgacg ttcgagaaaag ctgtgggttca aagaagtga tccacctatc caggggtaca 120
gaaggtagta aggagcagag ctgagatttt aaacctgcat tcttttagagt agcccgttg 180
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ttcacacctt ggatcacccc tgccctccct tctgggcttg tgtctcaatc ctctccctc 480

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```

agggagcagg agcaggatct gtggccaggg agcacatggc ggatctgtcc caagccagac 540
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aaaacagcat gtgtcggcca gaccagcgtg gtggcccact cctgcaattc cagcactttg 2160
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<210> 193

<211> 1155

<212> DNA

<213> Homo sapiens

<400> 193

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caggaagaaa aggaagtctt ctgtaacagt agcagcagag ccagcccaaa ataacttcaa 180
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<210> 194

<211> 1528

<212> DNA

<213> Homo sapiens

<400> 194

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<210> 195

<211> 624

<212> DNA

<213> Homo sapiens

<400> 195

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ctttactctg gttggaaaat ccattgtttt ggggacagac ttttaaaatg cccttgtgtc 180
tcccagtgag gagccctaag cattgacttc tctaccctaa aactgtttga gagagggaga 240
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atttactgag aatataggct ttaggagctc tgtaaggctg gtatttttgt ctgttttata 540
ttcttctgta tcgccagtgc ctggaacagt gtctgggtga cataataggt gctcaataaa 600
aatgtgttca atggatgaat ttctg 624

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<210> 196

<211> 417

<212> DNA

<213> Homo sapiens

<400> 196

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aatttgcatt aacctactgt gagtggcctt gaggacgaac cccgcaggga gcaagcagta 180
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<210> 197
 <211> 328
 <212> DNA
 <213> Homo sapiens

<400> 197
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 gtccctcaca ctgtgacctg accagcccca ccggcccatc ctggctcatgt tactgcattt 180
 gtggccggcc tcccctggat catgtcattc aattccagtc acctcttctg caatcatgac 240
 ctcttgatgt ctccatggtg acctccttgg gggtcactga ccctgottgg tgggggtccc 300
 cttgtaacaa taaaatctat ttaaactc 328

<210> 198
 <211> 337
 <212> DNA
 <213> Homo sapiens

<400> 198
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<210> 199
 <211> 573
 <212> DNA
 <213> Homo sapiens

<400> 199
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<210> 200
 <211> 1701
 <212> DNA
 <213> Homo sapiens

<400> 200
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 aactttgtgc agattattaa accgttacct cagccccac ctcaagtcaa agcactttat 180
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 gttctgactg tgatccgaag agtggatgaa aactgggctg aaggaatgct ggcagacaaa 300
 ataggaatat ttccaatttc atatgttgag ttttaactcg ctgctaagca gctgatagaa 360
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<210> 201

<211> 1169

<212> DNA

<213> Homo sapiens

<400> 201

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<210> 202

<211> 1975

<212> DNA

<213> Homo sapiens

<400> 202

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aattgtgatg taaaaggaca tcgattctgg ggataatttt tacttcacag ttgtcagatt 780
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gttagccgtg tgaaatacca cagagttcat tggtttggag ggcaatgccg gaggatcgct 1920
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<210> 203

<211> 440

<212> DNA

<213> Homo sapiens

<400> 203

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```

<210> 204

<211> 981

<212> DNA

<213> Homo sapiens

<400> 204

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<210> 205

<211> 1615

<212> DNA

<213> Homo sapiens

<400> 205

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<210> 206

<211> 648

<212> DNA

<213> Homo sapiens

<400> 206

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<210> 207

<211> 610

<212> DNA

<213> Homo sapiens

<400> 207

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<210> 208

<211> 2454

<212> DNA

<213> Homo sapiens

<400> 208

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<210> 209

<211> 1967

<212> DNA

<213> Homo sapiens

<400> 209

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<210> 210

<211> 1682

<212> DNA

<213> Homo sapiens

<400> 210

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<210> 211

<211> 1096

<212> DNA

<213> Homo sapiens

<400> 211

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<210> 212

<211> 880

<212> DNA

<213> Homo sapiens

<400> 212

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 <212> DNA
 <213> Homo sapiens

<400> 213
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 <211> 1504
 <212> DNA
 <213> Homo sapiens

<400> 214
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<210> 215

<211> 623

<212> DNA

<213> Homo sapiens

<400> 215

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<210> 216

<211> 676

<212> DNA

<213> Homo sapiens

<400> 216

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<210> 217

<211> 1963

<212> DNA

<213> Homo sapiens

<400> 217

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<210> 218

<211> 966

<212> DNA

<213> Homo sapiens

<400> 218

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<210> 219

<211> 2206

<212> DNA

<213> Homo sapiens

<400> 219

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<210> 220

<211> 1373

<212> DNA

<213> Homo sapiens

<400> 220

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<210> 221

<211> 982

<212> DNA

<213> Homo sapiens

<400> 221

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tgtaaaaaga ttgccatggc tc 982
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<210> 222

<211> 1963

<212> DNA

<213> Homo sapiens

<400> 222

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<210> 223

<211> 1627

<212> DNA

<213> Homo sapiens

<400> 223

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<210> 224

<211> 1868

<212> DNA

<213> Homo sapiens

<400> 224

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<211> 2980

<212> DNA

<213> Homo sapiens

<400> 225

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<211> 1013

<212> DNA

<213> Homo sapiens

<400> 226

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<212> DNA

<213> Homo sapiens

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<211> 2643

<212> DNA

<213> Homo sapiens

<400> 228

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<211> 2527

<212> DNA

<213> Homo sapiens

<400> 229

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<211> 2197

<212> DNA

<213> Homo sapiens

<400> 230

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<210> 231

<211> 1911

<212> DNA

<213> Homo sapiens

<400> 231

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<210> 232

<211> 2048

<212> DNA

<213> Homo sapiens

<400> 232

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<210> 233

<211> 2021

<212> DNA

<213> Homo sapiens

<400> 233

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<211> 2748

<212> DNA

<213> Homo sapiens

<400> 234

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<210> 235

<211> 1963

<212> DNA

<213> Homo sapiens

<400> 235

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<211> 2202

<212> DNA

<213> Homo sapiens

<400> 236

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<210> 237

<211> 1657

<212> DNA

<213> Homo sapiens

<400> 237

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gaattttgac aggaggaagg aatagaatga tagcttgttt tatttgtaaa gctttcagt 180
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<210> 238

<211> 979

<212> DNA

<213> Homo sapiens

<400> 238

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gccataaata tcagaaccaa agatcaagac attcatgtac agtctggaat gtatatatgg 480
ggcccataaa aattcccagt atgcatgttt tatgtccacc attatgaatt ggggtcttca 540

```



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<210> 239

<211> 2193

<212> DNA

<213> Homo sapiens

<400> 239

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<210> 240

<211> 420

<212> DNA

<213> Homo sapiens

<400> 240

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```

<210> 241

<211> 1565

<212> DNA

<213> Homo sapiens

<400> 241

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<210> 242

<211> 1995

<212> DNA

<213> Homo sapiens

<400> 242

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<210> 243

<211> 2212

<212> DNA

<213> Homo sapiens

<400> 243

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<210> 244

<211> 2521

<212> DNA

<213> Homo sapiens

<400> 244

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<212> DNA

<213> Homo sapiens

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<211> 2648

<212> DNA

<213> Homo sapiens

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<211> 2254

<212> DNA

<213> Homo sapiens

<400> 247

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<210> 248

<211> 2730

<212> DNA

<213> Homo sapiens

<400> 248

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<211> 1678

<212> DNA

<213> Homo sapiens

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<211> 1595

<212> DNA

<213> Homo sapiens

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<210> 251

<211> 3548

<212> DNA

<213> Homo sapiens

<400> 251

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<210> 252

<211> 1850

<212> DNA

<213> Homo sapiens

<400> 252

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<210> 253

<211> 1767

<212> DNA

<213> Homo sapiens

<400> 253

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<210> 254

<211> 286

<212> DNA

<213> Homo sapiens

<400> 254

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ccaaaattcc ttccgtagat aatatgataa ctttggtgaa cttaaagggtc caaatgataa 180
gtattatggc gccagaccg tgagatctac gatgaacttt aagattggag gtgtgacaga 240
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<210> 255

<211> 1896

<212> DNA

<213> Homo sapiens

<400> 255

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<210> 256

<211> 1896

<212> DNA

<213> Homo sapiens

<400> 256

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<210> 257

<211> 1590

<212> DNA

<213> Homo sapiens

<400> 257

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<210> 258

<211> 2825

<212> DNA

<213> Homo sapiens

<400> 258

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<210> 259

<211> 2296

<212> DNA

<213> Homo sapiens

<400> 259

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<210> 260

<211> 1801

<212> DNA

<213> Homo sapiens

<400> 260

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<210> 261

<211> 1575

<212> DNA

<213> Homo sapiens

<400> 261

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<210> 262

<211> 1841

<212> DNA

<213> Homo sapiens

<400> 262

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<210> 263

<211> 1907

<212> DNA

<213> Homo sapiens

<400> 263


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<210> 264

<211> 697

<212> DNA

<213> Homo sapiens

<400> 264

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<210> 265

<211> 1960

<212> DNA

<213> Homo sapiens

<400> 265

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<210> 266

<211> 977

<212> DNA

<213> Homo sapiens

<400> 266

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<210> 267

<211> 2084

<212> DNA

<213> Homo sapiens

<400> 267

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<210> 268

<211> 2513

<212> DNA

<213> Homo sapiens

<400> 268

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<210> 269

<211> 1693

<212> DNA

<213> Homo sapiens

<400> 269

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<210> 270

<211> 2149

<212> DNA

<213> Homo sapiens

<400> 270

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<210> 271

<211> 1812

<212> DNA

<213> Homo sapiens

<400> 271

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<210> 272

<211> 1831

<212> DNA

<213> Homo sapiens

<400> 272

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<210> 273

<211> 1542

<212> DNA

<213> Homo sapiens

<400> 273

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<212> DNA

<213> Homo sapiens

<400> 274

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<210> 275

<211> 2507

<212> DNA

<213> Homo sapiens

<400> 275

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<210> 276

<211> 2824

<212> DNA

<213> Homo sapiens

<400> 276

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<211> 1829

<212> DNA

<213> Homo sapiens

<400> 277

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<211> 2470

<212> DNA

<213> Homo sapiens

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<210> 279

<211> 2057

<212> DNA

<213> Homo sapiens

<400> 279

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<210> 280

<211> 2451

<212> DNA

<213> Homo sapiens

<400> 280

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<210> 281

<211> 1874

<212> DNA

<213> Homo sapiens

<400> 281

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<210> 282

<211> 1050

<212> DNA

<213> Homo sapiens

<400> 282

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<210> 283

<211> 3384

<212> DNA

<213> Homo sapiens

<400> 283

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<210> 284

<211> 2571

<212> DNA

<213> Homo sapiens

<400> 284

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<210> 285

<211> 1861

<212> DNA

<213> Homo sapiens

<400> 285

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<210> 286

<211> 2153

<212> DNA

<213> Homo sapiens

<400> 286

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 <212> DNA
 <213> Homo sapiens

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<210> 290

<211> 2241

<212> DNA

<213> Homo sapiens

<400> 290

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<210> 291

<211> 1827

<212> DNA

<213> Homo sapiens

<400> 291

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<210> 292

<211> 1845

<212> DNA

<213> Homo sapiens

<400> 292

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<211> 1241

<212> DNA

<213> Homo sapiens

<400> 293

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<211> 1608

<212> DNA

<213> Homo sapiens

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<210> 295

<211> 2236

<212> DNA

<213> Homo sapiens

<400> 295

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<210> 296

<211> 748

<212> DNA

<213> Homo sapiens

<400> 296

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<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<210> 299

<211> 416

<212> DNA

<213> Homo sapiens

<400> 299

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<210> 300

<211> 259

<212> DNA

<213> Homo sapiens

<400> 300

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tctttccctg gatgctgctt ctacagctaac tccctctctc ttcgtgtgtg tactcggcct 180
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<210> 301

<211> 2968

<212> DNA

<213> Homo sapiens

<400> 301

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<210> 302
<211> 2023
<212> DNA
<213> Homo sapiens

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<210> 303

<211> 1746

<212> DNA

<213> Homo sapiens

<400> 303

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<210> 304

<211> 1774

<212> DNA

<213> Homo sapiens

<400> 304

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<210> 305

<211> 677

<212> DNA

<213> Homo sapiens

<400> 305

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<210> 306

<211> 1315

<212> DNA

<213> Homo sapiens

<400> 306

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<210> 307

<211> 950

<212> DNA

<213> Homo sapiens

<400> 307

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<210> 308

<211> 1947

<212> DNA

<213> Homo sapiens

<400> 308

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<211> 2322

<212> DNA

<213> Homo sapiens

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<211> 1898

<212> DNA

<213> Homo sapiens

<400> 310

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<211> 1808

<212> DNA

<213> Homo sapiens

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<211> 2589

<212> DNA

<213> Homo sapiens

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<211> 1757

<212> DNA

<213> Homo sapiens

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<211> 2377

<212> DNA

<213> Homo sapiens

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<213> Homo sapiens

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<211> 418

<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

<400> 319

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<211> 2266

<212> DNA

<213> Homo sapiens

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<211> 1640

<212> DNA

<213> Homo sapiens

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<210> 322

<211> 2670

<212> DNA

<213> Homo sapiens

<400> 322

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<210> 323

<211> 1914

<212> DNA

<213> Homo sapiens

<400> 323

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<210> 324

<211> 2275

<212> DNA

<213> Homo sapiens

<400> 324

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<210> 325

<211> 2029

<212> DNA

<213> Homo sapiens

<400> 325

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<210> 326

<211> 403

<212> DNA

<213> Homo sapiens

<400> 326

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<210> 327

<211> 1863

<212> DNA

<213> Homo sapiens

<400> 327

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<210> 328

<211> 1855

<212> DNA

<213> Homo sapiens

<400> 328

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<210> 329

<211> 2095

<212> DNA

<213> Homo sapiens

<400> 329

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<210> 330

<211> 2380

<212> DNA

<213> Homo sapiens

<400> 330

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<210> 331

<211> 1266

<212> DNA

<213> Homo sapiens

<400> 331

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<210> 332

<211> 1473

<212> DNA

<213> Homo sapiens

<400> 332

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<210> 333

<211> 2076

<212> DNA

<213> Homo sapiens

<400> 333

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<210> 334

<211> 1143

<212> DNA

<213> Homo sapiens

<400> 334

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<210> 335

<211> 2577

<212> DNA

<213> Homo sapiens

<400> 335

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<211> 2594

<212> DNA

<213> Homo sapiens

<400> 338

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2594

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<211> 1062

<212> DNA

<213> Homo sapiens

<400> 339

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<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<211> 1753

<212> DNA

<213> Homo sapiens

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<210> 343

<211> 2053

<212> DNA

<213> Homo sapiens

<400> 343

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<210> 344

<211> 1917

<212> DNA

<213> Homo sapiens

<400> 344

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<210> 345

<211> 512

<212> DNA

<213> Homo sapiens

<400> 345

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<210> 346

<211> 1814

<212> DNA

<213> Homo sapiens

<400> 346

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<210> 347

<211> 1733

<212> DNA

<213> Homo sapiens

<400> 347

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<210> 348

<211> 3032

<212> DNA

<213> Homo sapiens

<400> 348

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 <211> 1767
 <212> DNA
 <213> Homo sapiens

<400> 349
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<210> 351

<211> 908

<212> DNA

<213> Homo sapiens

<400> 351

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<210> 352

<211> 1497

<212> DNA

<213> Homo sapiens

<400> 352

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<210> 353

<211> 843

<212> DNA

<213> Homo sapiens

<400> 353

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<210> 354

<211> 2229

<212> DNA

<213> Homo sapiens

<400> 354

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<210> 355

<211> 1859

<212> DNA

<213> Homo sapiens

<400> 355

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<210> 356

<211> 1088

<212> DNA

<213> Homo sapiens

<400> 356

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<210> 357

<211> 512

<212> DNA

<213> Homo sapiens

<400> 357

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<210> 358

<211> 2488

<212> DNA

<213> Homo sapiens

<400> 358

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<210> 359

<211> 1608

<212> DNA

<213> Homo sapiens

<400> 359

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<210> 360

<211> 560

<212> DNA

<213> Homo sapiens

<400> 360

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<210> 361

<211> 2017

<212> DNA

<213> Homo sapiens

<400> 361

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2017

<210> 362

<211> 810

<212> DNA

<213> Homo sapiens

<400> 362

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<210> 363

<211> 2213

<212> DNA

<213> Homo sapiens

<400> 363

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<210> 364

<211> 522

<212> DNA

<213> Homo sapiens

<400> 364

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<211> 744

<212> DNA

<213> Homo sapiens

<400> 366

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<210> 367

<211> 1351

<212> DNA

<213> Homo sapiens

<400> 367

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<210> 368
 <211> 1045
 <212> DNA
 <213> Homo sapiens

<400> 368
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 catctcccgt tccaagcccc tcaagaccct ctcccagaaa cgcccctgc ccaacatctt 360
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<210> 369
 <211> 1781
 <212> DNA
 <213> Homo sapiens

<400> 369
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1781

<210> 370

<211> 404

<212> DNA

<213> Homo sapiens

<400> 370

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tcatcagacc	tgtgcccttg	gccacaatg	atcacatttg	tctggcacag	tattttcccc	300
aatctgaaca	cagcctgtta	caatttgata	gaattgttga	aatggggagt	ttcatgacca	360
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<210> 371

<211> 1219

<212> DNA

<213> Homo sapiens

<400> 371

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gatggtggtt	catgtctaca	atcccagcac	tttggaagc	cgaggcagga	ggatcacttg	1140
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<210> 372

<211> 1690

<212> DNA

<213> Homo sapiens

<400> 372

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ataaattatc 1690

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<210> 373

<211> 297

<212> DNA

<213> Homo sapiens

<400> 373

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taccacataa aattattaca aattgcaaatt gttggatttg tgatttgatt atctgtacaa 180
agaaagaagc tctatgcagt gagtttgtgg tttaatgggc acaaaaatgt tagcactgct 240
accactcagc acgtgtaaaa ttttttaaat ttataaatat taaaatttta aacttac 297

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<210> 374

<211> 1150

<212> DNA

<213> Homo sapiens

<400> 374

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ggaggccaaa cgccaacaac ttgggataga gaaagaagct gttcttctga atcttaaaag 360
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taaccaagtc 1150

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<210> 375

<211> 623

<212> DNA

<213> Homo sapiens

<400> 375

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tcaggaaccc tgtatggttt ttagttttaa ttaaaggagt cgttatcgtg gtgggaatat 600
gaaataaagt agaagaaaag gcc                                     623

```

<210> 376

<211> 1108

<212> DNA

<213> Homo sapiens

<400> 376

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```

<210> 377

<211> 574

<212> DNA

<213> Homo sapiens

<400> 377

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<210> 378

<211> 2235

<212> DNA

<213> Homo sapiens

<400> 378

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<210> 379

<211> 1543

<212> DNA

<213> Homo sapiens

<400> 379

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aagatatgca aatagggtca agaattgac tgtagatcca actgctgctg gtgatgttcg 300
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tggtccctta aaccggcatt tgctgctaaa ggatacccag aaccctcact actgtnacat 780

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<210> 380

<211> 1087

<212> DNA

<213> Homo sapiens

<400> 380

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aaaattg 1087

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<210> 381

<211> 2349

<212> DNA

<213> Homo sapiens

<400> 381

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tgggtgaagt gtcacccaca gcccttcgtg gggccctggg caccctgcac cagctgggca 480
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<210> 382

<211> 342

<212> DNA

<213> Homo sapiens

<400> 382

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agacggaggc cagaggtggt ggaaggggcc aggggcctgc aggcctcccc ctggaactgg 180
gactggcttc ggtctgctga cgtcagggtc agctcccccg cggagctgac ttcagcagcc 240
cacagctgtg gggcttcagc agccacacca gccagcccca gccagctct cgatacgttt 300
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<210> 383

<211> 295

<212> DNA

<213> Homo sapiens

<400> 383

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tggtcattgt tgctgttaca aagaagaaaa ccatctgagt tctaactcct tggttgctta 180
aaagtagttc ccaagagtct gagaagctat ttctattttt aagagtcatt ttttgtaatt 240
tttgtaaaac aaaagtacca atctgttttg taaataaaaa tcctcctaaa atttg 295

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<210> 384

<211> 549

<212> DNA

<213> Homo sapiens

<400> 384

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tttcttaatg cgaaatgcga gtcggctttc ctttccaaga ggaatcctcg gcagataaac 180
tggactgtcc tctacagaag gaagcacaaa aagggacagt cggaagaaat tcgaaaagca 240

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aagagaaccc gccgagcagt caaatatcat agggccatta ctggtgcac tgttgcctgat 300
gtatgggcca agaggaatca gaaacctgaa gttagaaagg ctcaacgaga acaagctatc 360
agggctgcta aggaagcaaa aaaggctaag caagcatcta aaaagactgc aatggctgct 420
gctaaggcac ctacaaaggc agcacctaag caaaagattg tgaagcctgt gaaagtttca 480
gctccccgag ttggtggaaa acgctaaact ggcagattag atttttaaat aaagatttga 540
ttataactc 549

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<210> 385

<211> 1881

<212> DNA

<213> Homo sapiens

<400> 385

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tgactgcaaa ggtacatcaa gagagtgtac acatgattga agtcacaagt aatttgatta 180
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agcaggaaaa atgaatcttc tacccttctc ccacaatgta ttatacgtc ttttaagaaat 1860
aataaatcat aagtataagg g 1881

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<210> 386

<211> 435

<212> DNA

<213> Homo sapiens

<400> 386

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cctctctggg atgagagctc taaagcagag taagattacg ttctgatgta agctttaacc 180
acctatttat aaggtctcac ctgtggtcca ctgtgttgag acttctacag aagagcttct 240
gtatagtaac cattttctta ggctgtctca cttgtgtgaa tcttctgaca catttattat 300
agctttgtcc catttcttat cttttttgct ctttagaaat ttccctttaa tttattacat 360
tcattgctta ctgtaaaagag tccaggtaac tgactttatt cagttacttc ctgttcaata 420
aatttaactt ttccc 435

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<210> 387
 <211> 945
 <212> DNA
 <213> Homo sapiens

<400> 387
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<210> 388
 <211> 1091
 <212> DNA
 <213> Homo sapiens

<400> 388
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<210> 389
 <211> 2026
 <212> DNA
 <213> Homo sapiens

<400> 389
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<210> 390

<211> 1974

<212> DNA

<213> Homo sapiens

<400> 390

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atccaggcag attgtagaaa ggcaacctcg gatgctggac ttcagggttg aatacagaga 180
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<210> 391

<211> 2167

<212> DNA

<213> Homo sapiens

<400> 391

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cctcctgctc gccctcctcc tgccctactg ccagaagctc tttgtgtatg accttcacgc 180
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<210> 392

<211> 475

<212> DNA

<213> Homo sapiens

<400> 392

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ccctcccact aagaaaaattc gatcatctcc ccgagaagct aaaaataaga ggcgatctgg 180

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aaagaattca caggaagata gtgaggactc agaagacaaa gatgtgaaga ccaagaagga 240
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gggcagtgaag gaagaacaag aagaggagga tgaggcacca ttccaggaga aagattccgg 420
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<210> 393

<211> 1512

<212> DNA

<213> Homo sapiens

<400> 393

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ccccagcca tctgcgtct ggacctggct ggccgggacc tgaccgacta cctcatgaag 240
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aatgagcggg tccgggtgtc ggaggcgtg ttccagcctt ccttctctgg tatggaatct 480
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gctgccgtaa cc 1512

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<210> 394

<211> 489

<212> DNA

<213> Homo sapiens

<400> 394

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cagtctcaga cggcctactg agctctccac tctgtttccc gcctgggcca tccaaccttg 420
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<210> 395

<211> 380

<212> DNA

<213> Homo sapiens

<400> 395

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caccgcctgg ttcttcgttt acgaggtcac ctctaccaag tacactcgtg atatctataa 180
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gctctgggtt ggcatctacg tgtgagcacc caagggtaac aaccagatgg cttcactgaa 300
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<210> 396

<211> 1542

<212> DNA

<213> Homo sapiens

<400> 396

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<210> 397

<211> 1874

<212> DNA

<213> Homo sapiens

<400> 397

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<210> 398

<211> 1186

<212> DNA

<213> Homo sapiens

<400> 398

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<210> 399

<211> 2749

<212> DNA

<213> Homo sapiens

<400> 399

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<210> 400

<211> 1167

<212> DNA

<213> Homo sapiens

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<211> 1004

<212> DNA

<213> Homo sapiens

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<210> 402

<211> 1518

<212> DNA

<213> Homo sapiens

<400> 402

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<210> 405
 <211> 1148
 <212> DNA
 <213> Homo sapiens

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<211> 878

<212> DNA

<213> Homo sapiens

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<210> 407

<211> 1832

<212> DNA

<213> Homo sapiens

<400> 407

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<210> 408

<211> 2596

<212> DNA

<213> Homo sapiens

<400> 408

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<210> 409

<211> 2368

<212> DNA

<213> Homo sapiens

<400> 409

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<210> 410

<211> 2373

<212> DNA

<213> Homo sapiens

<400> 410

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<210> 411

<211> 2334

<212> DNA

<213> Homo sapiens

<400> 411

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<210> 412

<211> 3100

<212> DNA

<213> Homo sapiens

<400> 412

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<210> 413

<211> 1121

<212> DNA

<213> Homo sapiens

<400> 413

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<212> DNA

<213> Homo sapiens

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<211> 1036

<212> DNA

<213> Homo sapiens

<400> 415

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<211> 2599

<212> DNA

<213> Homo sapiens

<400> 416

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<212> DNA

<213> Homo sapiens

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<211> 2446

<212> DNA

<213> Homo sapiens

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<212> DNA

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ttaagaggaa cgtgcaggcc cttccattga tgatattccc ttctcaacat ttttaaacaa 660
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<210> 425

<211> 1654

<212> DNA

<213> Homo sapiens

<400> 425

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```

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1654

<210> 426

<211> 1657

<212> DNA

<213> Homo sapiens

<400> 426

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tttttccgat tcctttttgt cattggattt gtttgttttg tcatgtggtg aatgggtgtt 180
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attgtgttgc caccagaatc aagaatccag ttcttgttca tactgccttg tagtgagggc 300
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gttcagatac tgtggttggg ttgtctatat ttaatatgca gatttgcttg ctggaatcat 600
aatccatttt taagtgaatg taagaaatga aaactactgc atttgtgtct tttgaaggca 660
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tactgctttt ggaataatag gaagttttgt gaaatgctgg ccttgtgtat atcttagaat 1620
gcaaatttta taaagtgtgt atacatgcat aaaattt 1657

```

<210> 427

<211> 562

<212> DNA

<213> Homo sapiens

<400> 427

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cgataacctg tttccttgct actttgcttt ggtgtaagca gagttctttc tgtaggtttt 60
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ctgcagcatg gtgctgacat tgataactga aagtcaacta atgagaattt gagacttctg 180
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acaatgtttg taaatatatta tcttgctgct tttctagttt tgtcttctgg atttaaaatt 420
tggtggcggt ggggtggaat tgcattggtt gggaatgggt agttgagctg ctgctcatta 480
tggtatgtaa cagtgatatt tctgtttaat atgtacaaga actggaaggt caataaaatt 540
aaagtgggtg tcttgactgg gt

```

<210> 428

<211> 466

<212> DNA

<213> Homo sapiens

<400> 428

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gctgtgagaa gtatccgcga cgagctatcc gggaaagggc cgaatgcgat caaacctaatt 60

```

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ccgcgagact tgctaagggt ctgtgctaca aattgatggt tagataaact tcagtgaat 120
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ttttgatgaa tgcaacaacc agcttccagt ttactacacc tacaagactg tggttaatgc 240
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cccggctgct tatgtacctt tcgagccaga ttcaccaccg tcattatcaa ctcattttat 420
gaaaaaatgt aatctaaagt atatccttgt tgaaaaaaa caaatt 466

```

<210> 429

<211> 859

<212> DNA

<213> Homo sapiens

<400> 429

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caggcctcct tctggaatca tagaaccgta gaattggaag gaattttaga ggttttctag 300
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ctggactttt ttcacttttt cctccacctc aaaaaatact tacacacaga ttcttcttgt 420
acaggcatca aaaccaactc ctctgcccct aaggctgtgt cctgtgtgtc tccagccacc 480
cctaccccag tcaactgccc ctctctcatc tctggaattt ggccaggcag tccagaaga 540
ctctggagtg acctcctttg cctaaaaaagc agacagatag gcatgcccc ggcctgagt 600
gagcagagga ggactgtagg gtgagaggga aagaaaatga aggtgacttt catggaagtt 660
tcatttcttt tccccgattg taccaactgc atgtactttt ggcttggtg caaggagcaa 720
tattggttta ctctcgatc cttaaaaagt tacagaactg tgtcttaaga gaattattta 780
tagttactat aactgaattg acaaatgtca acttaactga taaattatat ttggtaaaat 840
aaagaggacg tttatttag 859

```

<210> 430

<211> 534

<212> DNA

<213> Homo sapiens

<400> 430

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tcaaggcaaa agtggaaacct taaagtgatc catagctgtc tttgtatgat caaaagatgc 60
acagcttttt attagtcagg aaaaggagaa agtggttttt tctggaagca aacttaaaga 120
catttcaaaa agatatacag acgatctccg atttaagatc gtttgactta agatttttca 180
actctatcat agtaccatt gcaaccaacc tggttttcac ttttggtaca tatttggtaa 240
attatatgag gtatccaata ctttattata caagtagatt tgtgttagat gattttgccc 300
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tgttccgtag gttaggtgta ttaaatgcat tttctactta gaatgttttc aacttacgat 420
gagtttattg ggatgtaacc ccaccgtaag tcaaggggca ttggtattga acctcataaa 480
acagaatgcc tttaggagat gttttcaaaa aagaaacaga aactatacca ggac 534

```

<210> 431

<211> 1038

<212> DNA

<213> Homo sapiens

<400> 431

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cacaaataga actttatcta acaaatcact ttcaaaaata acagggtcaac tgtattttaat 60
ttgtttatgt cacttataac ttacctattt ctgtatcagg aggaatgtt ttctgcttta 120
agtaacacaa aagatccaag tggcaatggt tcttcaaata ggggtttttc tcagataaca 180
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gtacaacatg atcacccctt gttcccagga aagtgggaaa atgaagctgt acgcctttcc 480
agtctcacta atggaagggt ggaaaggaaa atggggattg ggaattacca tggatcagac 540

```

```

aaccaacagt tttgccacca gttataatta gagcagaggt cattttatat ttgaatcttt 600
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ccaccgcacc cagctaattt ttttggttt tttagtagaga ccgggtttca ccatgttggt 840
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gggattacaa gcatgagcca ctgtgcctgg cacataaagc tcactataaa actgcagtcc 960
taagtactta aaaatttctt cattgttggg tatctagttt tgttttcagt gctaacctaa 1020
tataaaaaaa tactacac 1038

```

<210> 432

<211> 717

<212> DNA

<213> Homo sapiens

<400> 432

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gacttggttt cttagctaga aaccagaaga ctacgggagg gaatataagg cagagaacta 60
tgagtcttat tttattactg tttttcacta cctactccca caatggacaa tcaattgagg 120
caacctacaa gaaaacattt acaaccagat gggtacaaat aaagtagaag ggaagatcag 180
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agttcagaac tccctagtca ccatctccaa gcctgtcaac atcactgcat attggaggag 300
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agcttcctgg caaccagtgg gaaaagaaac atgcgaggct gtaggaagag ggaagctctt 420
ccttggcacc tagaggaatt agccattctc ttcttattg caaaagattg aggaatgcaa 480
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gttcatccca gcagaagaaa gaagaagggt ttggggtagg attcttcaga ggtagcctg 600
gtactttctc atcagacact agcttgaagt aagaggagaa ttatgctttt ctttgctttt 660
tctacaaacc cttaaaaatc acttgtttta aaaagaaagt aaaagccctt ttcattc 717

```

<210> 433

<211> 1231

<212> DNA

<213> Homo sapiens

<400> 433

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cttttactat ctgccaaggg ctgtcctggc ttgcatcaac atctccagca tgcgccaggt 60
gttctgcccag atgcaggaac ttccacaact atggcacatc agccgagtggt actttgtgag 120
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taactcctag tatgctttac tcacaggcaa gggaaaggat ggggtttgaa cccctttggc 300
ctgaatattt gtaacttccc aactggtgag ggctattaca tttggtgtgt gtcccattga 360
atcaaccctg ttgtttcctt ctgtcatgct ttccacttct tcttgatca tctctcccca 420
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gtaactaata aaatgaagct gagagctttg g 1231

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<210> 434

<211> 398

<212> DNA

<213> Homo sapiens

<400> 434

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ggctactctg cctccatcag cattttcaaa tttcaggctc tggcctttca ccgaatgcac 60
ttcccaccag tcctgtttac actgccaggt tccgctagga gctttccac ctctgcaggt 120
gcaggcctcg ctgcttctta aggcctttct ctggggtggg aggaaacgga aactgtatga 180
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gcggcatgac ttttaaaaaa atgtcctgct ggtattggac cctttctgtg tttgtgaaat 300
tgctattttg tattaacaca gtatttgata aacatttata ttaagaagaa taatccctct 360
gctgaatatt attgtttcca atggagtaga aagaactt 398

```

<210> 435

<211> 551

<212> DNA

<213> Homo sapiens

<400> 435

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ctcttctccc ggtcccatct tctgagaggg cttctcagcc tggaaactat ggaaacagca 60
tcaaagagaa aggaatgtgg ggggtttccg ctgcccccca cccccagcgg cccaccccat 120
gcctcagctt catgtctgtc ccattcctat accatcccca cctgttgta tgtattatag 180
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tatgaacagc attgtcagat gaattagttg aagtggtttt tttttgttt tttttttttt 480
ttttgtact gtgtcctcaa atttaatgga ttaatgtgtc ttgtatatat aaaaagaaaa 540
cctctacctt c 551

```

<210> 436

<211> 664

<212> DNA

<213> Homo sapiens

<400> 436

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ctgcagttag ctgagatcac annactgca ctccagctgg ggcggcagag tgagactgtc 664
tcag

```

<210> 437

<211> 925

<212> DNA

<213> Homo sapiens

<400> 437

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gaaaggagag gctccttgaa gctgctcagt cagaggcccc cgtccctcct tttgccttcc 540

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gcagactgaa gacctgaagg ggctggcttt tggagtgttg aggtgaatat ctgggagcag 600
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aatcctgggg tgagtggagt caccacctc ccagttgctg gcagagactg agactaaagc 900
atcanttaat aaacccccc agccc

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<210> 438

<211> 351

<212> DNA

<213> Homo sapiens

<400> 438

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gaagggggct gccgatcatg gtgaaagggg acattttcat tgggtcctcg tgggtccgtgt 60
cctgggtact cggggtcacc gtgcagacag ctgccctttg tctgccggac acagtgcagg 120
caggggagag aggtttaggg ctctgacatg gggcacaggg actccgagcc aagggatgtc 180
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catgacctac attttgagcg gtttatcaat aaacatgtgt gaacaactgt t 351

```

<210> 439

<211> 1265

<212> DNA

<213> Homo sapiens

<400> 439

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cacactagct ggggtgtggtg gcgcacatct gtgggtccag ctactcaaga ggctgaggtg 180
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<210> 440

<211> 556

<212> DNA

<213> Homo sapiens

<400> 440

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<210> 441

<211> 418

<212> DNA

<213> Homo sapiens

<400> 441

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<210> 442

<211> 902

<212> DNA

<213> Homo sapiens

<400> 442

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<211> 553

<212> DNA

<213> Homo sapiens

<400> 443

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<211> 1230
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 <213> Homo sapiens

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 <212> DNA
 <213> Homo sapiens

<400> 446
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<211> 1031

<212> DNA

<213> Homo sapiens

<400> 447

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<211> 2166

<212> DNA

<213> Homo sapiens

<400> 448

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<210> 449

<211> 1107

<212> DNA

<213> Homo sapiens

<400> 449

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<210> 450

<211> 2010

<212> DNA

<213> Homo sapiens

<400> 450

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<210> 451

<211> 817

<212> DNA

<213> Homo sapiens

<400> 451

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<210> 452

<211> 1112

<212> DNA

<213> Homo sapiens

<400> 452

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gtttaacatg cagggtacat caatagggcc aatttaaaaa atgataacac atattagtat 180
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```

<210> 453

<211> 836

<212> DNA

<213> Homo sapiens

<400> 453

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tctgcacctg acttttcccta gttgtcctgg tgctaacaca ggagctacac cttgatccct 180
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<210> 454

<211> 1354

<212> DNA

<213> Homo sapiens

<400> 454

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gcctaaagga tttgctgggg gcaaggtgtc tctgcgggat tgtttcaacc ttttactaa 660
ggaagaagag ctagagtcgg agaatgcccc agtgtgtgac cgatgtcggc agaaaactcg 720

```



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aagtaccaaa aagttgacag tacaaagatt ccctcgaatc ctctgtctcc atctgaatcg 780
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<210> 455

<211> 1820

<212> DNA

<213> Homo sapiens

<400> 455

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<210> 456

<211> 1782

<212> DNA

<213> Homo sapiens

<400> 456

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cgaccagcac catacggggc atgggggtat ggagggcctc ctgtggggac tgcaggcggt 180
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agagaagacc ttcagaggag gtaacctgag actttccaca agtgaaagag cagcgagggg 1740
acaggagttc accggacata aatggcacct tttgccccct tg 1782

```

<210> 457

<211> 2607

<212> DNA

<213> Homo sapiens

<400> 457

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<210> 458

<211> 645

<212> DNA

<213> Homo sapiens

<400> 458

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<210> 459

<211> 659

<212> DNA

<213> Homo sapiens

<400> 459

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tgttatattt aggcaaaact ttgtagtctt ctttcccttt tatgatggat tttgataaaa 180
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```

<210> 460

<211> 1282

<212> DNA

<213> Homo sapiens

<400> 460

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tcagtctcat gggattgttc tctgaggctc aagaggctcag gaggcccagg tgaacgaggt 120
ggtcttcagc cccggggagt cccactgcgc cacatgcagt gaggatggga gtgtgcgggt 180

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aataaacatg ggcattttat gc 1282

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<210> 461

<211> 663

<212> DNA

<213> Homo sapiens

<400> 461

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<210> 462

<211> 709

<212> DNA

<213> Homo sapiens

<400> 462

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ttgtcaagaa ataccctgag ccagttctct agacgcttcg gtaaaaaatg tccctggatg 660
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<210> 463

<211> 309

<212> DNA

<213> Homo sapiens

<400> 463

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taaacagtc                                     309

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<210> 464

<211> 324

<212> DNA

<213> Homo sapiens

<400> 464

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gatcagagaa gaggtactg ggggagaatt cagtgcctcc ttcgccctct agggagcaga 60
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<210> 465

<211> 2140

<212> DNA

<213> Homo sapiens

<400> 465

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```

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 <211> 2510
 <212> DNA
 <213> Homo sapiens

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<400> 466
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<210> 467
 <211> 1160
 <212> DNA
 <213> Homo sapiens

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<400> 467
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<210> 468

<211> 1866

<212> DNA

<213> Homo sapiens

<400> 468

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<210> 469

<211> 1825

<212> DNA

<213> Homo sapiens

<400> 469

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<210> 470

<211> 417

<212> DNA

<213> Homo sapiens

<400> 470

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acaagctgtc atctcgggag gagacaccag gccctgacca gacgctgaac atgccagcac 360
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```

<210> 471

<211> 1080

<212> DNA

<213> Homo sapiens

<400> 471

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<210> 472

<211> 1266

<212> DNA

<213> Homo sapiens

<400> 472

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<210> 473

<211> 2748

<212> DNA

<213> Homo sapiens

<400> 473

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<210> 474

<211> 755

<212> DNA

<213> Homo sapiens

<400> 474

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<210> 475

<211> 630

<212> DNA

<213> Homo sapiens

<400> 475

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<210> 476

<211> 1143

<212> DNA

<213> Homo sapiens

<400> 476

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<210> 477

<211> 2260

<212> DNA

<213> Homo sapiens

<400> 477

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<210> 478

<211> 995

<212> DNA

<213> Homo sapiens

<400> 478

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<210> 479

<211> 2803

<212> DNA

<213> Homo sapiens

<400> 479

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<210> 480

<211> 312

<212> DNA

<213> Homo sapiens

<400> 480

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<210> 481

<211> 3165

<212> DNA

<213> Homo sapiens

<400> 481

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<210> 482

<211> 620

<212> DNA

<213> Homo sapiens

<400> 482

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<210> 483

<211> 2162

<212> DNA

<213> Homo sapiens

<400> 483

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<210> 484

<211> 1737

<212> DNA

<213> Homo sapiens

<400> 484

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<210> 485

<211> 1972

<212> DNA

<213> Homo sapiens

<400> 485

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<210> 486

<211> 2015

<212> DNA

<213> Homo sapiens

<400> 486

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<210> 487

<211> 619

<212> DNA

<213> Homo sapiens

<400> 487

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<210> 488

<211> 1179

<212> DNA

<213> Homo sapiens

<400> 488

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<210> 489

<211> 2456

<212> DNA

<213> Homo sapiens

<400> 489

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<212> DNA

<213> Homo sapiens

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<211> 2259

<212> DNA

<213> Homo sapiens

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<211> 1168

<212> DNA

<213> Homo sapiens

<400> 492

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<212> DNA

<213> Homo sapiens

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<211> 2353

<212> DNA

<213> Homo sapiens

<400> 494

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<211> 2557

<212> DNA

<213> Homo sapiens

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<211> 2496

<212> DNA

<213> Homo sapiens

<400> 496

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<210> 497

<211> 2053

<212> DNA

<213> Homo sapiens

<400> 497

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<211> 2610

<212> DNA

<213> Homo sapiens

<400> 498

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<211> 1212

<212> DNA

<213> Homo sapiens

<400> 499

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<212> DNA

<213> Homo sapiens

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<211> 1971

<212> DNA

<213> Homo sapiens

<400> 501

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<211> 562

<212> DNA

<213> Homo sapiens

<400> 502

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<210> 503

<211> 977

<212> DNA

<213> Homo sapiens

<400> 503

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 <213> Homo sapiens

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<210> 507

<211> 2477

<212> DNA

<213> Homo sapiens

<400> 507

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<211> 1308

<212> DNA

<213> Homo sapiens

<400> 508

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<211> 1381

<212> DNA

<213> Homo sapiens

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<210> 510

<211> 1514

<212> DNA

<213> Homo sapiens

<400> 510

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<211> 1872

<212> DNA

<213> Homo sapiens

<400> 511

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<210> 512

<211> 1195

<212> DNA

<213> Homo sapiens

<400> 512

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<210> 513

<211> 1365

<212> DNA

<213> Homo sapiens

<400> 513

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<210> 514

<211> 2908

<212> DNA

<213> Homo sapiens

<400> 514

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<210> 515

<211> 1027

<212> DNA

<213> Homo sapiens

<400> 515

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<210> 516

<211> 2216

<212> DNA

<213> Homo sapiens

<400> 516

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<210> 517

<211> 1431

<212> DNA

<213> Homo sapiens

<400> 517

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<210> 518

<211> 1883

<212> DNA

<213> Homo sapiens

<400> 518

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<210> 519

<211> 693

<212> DNA

<213> Homo sapiens

<400> 519

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<210> 520

<211> 2024

<212> DNA

<213> Homo sapiens

<400> 520

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<210> 521

<211> 1182

<212> DNA

<213> Homo sapiens

<400> 521

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<210> 522

<211> 2489

<212> DNA

<213> Homo sapiens

<400> 522

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<211> 2354

<212> DNA

<213> Homo sapiens

<400> 523

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<210> 524

<211> 2912

<212> DNA

<213> Homo sapiens

<400> 524

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<211> 586

<212> DNA

<213> Homo sapiens

<400> 525

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<211> 2084

<212> DNA

<213> Homo sapiens

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<210> 527

<211> 702

<212> DNA

<213> Homo sapiens

<400> 527

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<211> 2697

<212> DNA

<213> Homo sapiens

<400> 528

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<210> 529

<211> 2729

<212> DNA

<213> Homo sapiens

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<210> 530

<211> 2833

<212> DNA

<213> Homo sapiens

<400> 530

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<210> 531

<211> 2293

<212> DNA

<213> Homo sapiens

<400> 531

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<210> 532

<211> 972

<212> DNA

<213> Homo sapiens

<400> 532

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<211> 1127

<212> DNA

<213> Homo sapiens

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<210> 534

<211> 1960

<212> DNA

<213> Homo sapiens

<400> 534

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<210> 535

<211> 1295

<212> DNA

<213> Homo sapiens

<400> 535

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<210> 536

<211> 1411

<212> DNA

<213> Homo sapiens

<400> 536

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<210> 537

<211> 1023

<212> DNA

<213> Homo sapiens

<400> 537

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<210> 538

<211> 1333

<212> DNA

<213> Homo sapiens

<400> 538

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<210> 539

<211> 1110

<212> DNA

<213> Homo sapiens

<400> 539

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<210> 540

<211> 144

<212> DNA

<213> Homo sapiens

<400> 540

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tgcattaata aaagtgtagt ctcc 144

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<210> 541

<211> 1069

<212> DNA

<213> Homo sapiens

<400> 541


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<210> 542

<211> 1634

<212> DNA

<213> Homo sapiens

<400> 542

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<210> 543

<211> 473

<212> DNA

<213> Homo sapiens

<400> 543

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<210> 544

<211> 642

<212> DNA

<213> Homo sapiens

<400> 544

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<210> 545

<211> 912

<212> DNA

<213> Homo sapiens

<400> 545

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<210> 546

<211> 759

<212> DNA

<213> Homo sapiens

<400> 546

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gtaccaggat gccaccgcag aagaggagga ggatttcggt gaggaggccg aagaggaggc 180
ctaaggcaga gccccatca cctcaggctt ctcagttccc ttagccgtct tactcaactg 240
cccttttctt ctccctcaga atttgtgttt gctgcctcta tcttgttttt tgttttttct 300
tctggggggg gtctagaaca gtgcctggca catagtaggc gctcaataaa tacttgtttg 360

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ttgaatgtct cctctctctt tccactctgg gaaacctagg tttctgccat tctgggtgac 420
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ccaagaagct ggggtctccag atcccattta gaaccaacca ggtgctgaaa acacatgtag 540
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ctatataagg aaggggatgg gattttccat tctaaaagtt ttggagaggg aaatccaggc 660
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<210> 547

<211> 1016

<212> DNA

<213> Homo sapiens

<400> 547

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<210> 548

<211> 640

<212> DNA

<213> Homo sapiens

<400> 548

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ctaattttaa cacttgcggg gactcagctg aaacagcttc taccaggttt gaaatgttct 180
ccctcagtg gactttcgga acccagtagt tctttcctga ggtgttgctg agtgaaaatc 240
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ctattgtatg ctcatthaat tggtagaata ttgacttttt ctctttttta tttgggataa 480
tttaaaaaat gatggatgag aaaagaaaga ttggtccggg ttaatatatt cctctagtat 540
aagtgaatta ctagtttctc tttattttaga caaacacaca cacaccagat aatataaaact 600
taataaatta tctgttaatg tagattttat ttaaaaaact 640

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<210> 549

<211> 591

<212> DNA

<213> Homo sapiens

<400> 549

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tattattatc atgtgcaaa gtaggtttg aggacaggta aaatcaaaat gtgtatgctc 180
tctagaaggg aaagtcccta ctgaagatag ctttgcctta atgagctcaa ttacaatgtg 240
aatgctgagg tttattgtgt tggctgtatg gtcattgagaa aatgggtcatt tcttggacta 300

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```

cctgatacgg tttggctgtg tccccaccca agtcttattt tgaattgtaa tccccataat 360
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catgctgttc tcatgattgt gagttctcat gagatccaat ggtttttatac atggtagtct 480
ctcctgctgc catgtaaaac atgcctgctt ccccttctgc caggattgta agtttcccga 540
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```

<210> 550

<211> 998

<212> DNA

<213> Homo sapiens

<400> 550

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tgcttgctgc tgaaataaat tgaaaattaa tattcaat 998

```

<210> 551

<211> 837

<212> DNA

<213> Homo sapiens

<400> 551

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ggcaggtaaa cattacagta cagaagaaag tgagtcagtg gtgggagaga ctcaaaaagc 60
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cggaatgga gtcagagct aaggaagaag agcgctctaa taaactccga ctggaaagcg 180
aaggctctcc tgaaaactctt acaaacttaa ggaaaggata cctgtttatg tataatcttg 240
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ggaaagagtc cttttatgac acattccata ctgtggctga catgatgtat ttctgccaga 360
tgctggcagt tgtggaaact atcaatgcag caattggagt cactacgtca ccggtgctgc 420
cttctctgat ccagcttctt ggaagaaatt ttattttgtt tatcatcttt ggcaccatgg 480
aagaaatgca gaacaaggct gtggtttctt tgtgttttat tgtggagtgc aattgaaatt 540
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cagtgaatat caaagttaga ttttcccttt ttcttcagat ttatcttata atgatatttt 780
taggtttata cataaatttt cgtcaccttt ataaacagcg cagacggcgc tatggac 837

```

<210> 552

<211> 1957

<212> DNA

<213> Homo sapiens

<400> 552

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ttttttcaga atgaacttaa taattacctg ttggtttgtt gtttaattatc ctccctccct 60
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agtttacgcc ccaaggtaaa attaatctgg ccaggctctt gtttttcacc tgcacagtt 180
tcatacatca tcatatttct gattagtaag aagaggcagc cagaagttag atacagattt 240

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tcattaggtg aggtagaatg aacatggcag aaaataggat aggacaacat atctttttat 300
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taatgtgtct tgttttaaag ctgtttaagg gtaaaaaata caggtaatat gttactcttg 420
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cattgtcagg ctgtcttaaa acagctgaac gaacagagac ttccaacca gttctgtgat 540
gttactttgt taattgaagg agaagagtac aaagctcata aatctgtttt gtcagcaaat 600
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gcaggagaat cgcttgaacc tgggaggtgg acgttgcggt gagctgagat cacaccattg 1920
cactccagcc tgggtgacaa gagcaaaaact ccgtctc . 1957

```

<210> 553

<211> 1080

<212> DNA

<213> Homo sapiens

<400> 553

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attgctggat catnnattgt tctgttttta attctttgaa gaccttcata ctgttttcca 180
tagtgactag accattttac attcccacca acaatgtaca agggttccag tttctccaca 240
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gatattacta tctcatgggt ttgatttgca tagcctagaa catttttgag tcttctgtg 360
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gttccacctt ctagggaggg tgaggcagga ggatcacttg agcccaggaa tttgaggctg 1020
cagtgagcta cgatcacacc actgcattct agccttaagt gacagagtga gaccccaaat 1080

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<210> 554

<211> 1004

<212> DNA

<213> Homo sapiens

<400> 554

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aaatgtcttt ccttctatct gggtcctgtt aaagcgggtg tcagttgtgt cttttcacct 180
cgatttgtga attaatagaa ttggggggag aggaaatgat gatgtcaatt aagtttcagg 240
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aagaacaagt ttcagaattt tccctccact atacgactcc agtattatgt ttacaatcca 360
ttggatgagt gcagcattat aagaccttgg tgcccagaaa aatctgtcct ttttgggtacc 420
aaacctgagg tcttttggaa gataatgtag aaaaccacta cctattgaag gcctgttttg 480
gctaactctg gcaaactctg atgatacctg cttatgtgga ttcttttcca cactgctttc 540
atttttaagt ataaagactt agaaaactag aataatgctt ttacaaataa ttaaaagtat 600
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cattgtacat tacaatgaaa atgtgtaact taagggtatt atatatataa atacatatat 960
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<210> 555

<211> 2054

<212> DNA

<213> Homo sapiens

<400> 555

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<210> 556

<211> 744

<212> DNA

<213> Homo sapiens

<400> 556

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atgttttgtg catgagtagt acttgtgttg ataactcctgt tgatgttaaa ttactatata 660
atataaacag tatgtgtttt tataatcat tgtgtaaatt taatataaca tatgcagtaa 720
taaaccattt gttttactgc taag                                     744

```

<210> 557

<211> 549

<212> DNA

<213> Homo sapiens

<400> 557

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tccacgtttt gtccagaatc aactgctacc acatgagtct tcttggtaa gtcatttgag 180
cccacagtga cagaataggt ccctggatat acttctatgt agaggtcctt agagatgttc 240
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agaacgcgt gcgggccggc tgccggctgt ttctctaggt ggggcgcctc ccgggcaagg 420
acccccatgc agcctttggg acgctccagg gcatgccagt ccaccgcctt cctcttggcc 480
ctctccagca cttctagagc cagccttgct gaacgctgca gggaacgtcg gtccacccca 540
ttcagcgt                                     549

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<210> 558

<211> 855

<212> DNA

<213> Homo sapiens

<400> 558

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cttttttttt tttttttttt tttttttaag acagttttgc tctgtcgccc aggetggagc 60
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<210> 559

<211> 504

<212> DNA

<213> Homo sapiens

<400> 559

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cggttgcggt tggggctgac ttctgtttg tttgagcccc tttttgtttt gccctctggg 420
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<210> 560

<211> 1236

<212> DNA

<213> Homo sapiens

<400> 560

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<210> 561

<211> 565

<212> DNA

<213> Homo sapiens

<400> 561

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aacatgtttc cgtgactcat ctagttagag caattatggg aaacagcttt ggtcaacatt 180
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tctttttgct ccacctgaa ttcttcacac ctaacctga tagttacct aagtacact 480
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<210> 562

<211> 581

<212> DNA

<213> Homo sapiens

<400> 562
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 tctctggccg aggcgagccg cgcaagtttc cggggaccct cagagttgca ctccgaagac 180
 tccagattcc gagagttgcg gaaacgctac gaggacctgc taaccaggct gcgggccaac 240
 cagagctggg aagattcgaa caccgacctc gtcccggccc ctgcagtccg gatactcacg 300
 ccagaagtgc ggctgggata cggcgggccac ctgcacctgc gtatctctcg ggccgcccct 360
 cccgaggggc tccccgaggg ctcgccgccc caccggggctc tgttcgggct gtccccgacg 420
 gcgtcaaggt cgtgggacgt gacacgaccg ctgcggcgctc agctcagcct tgcaagaccc 480
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<210> 563
 <211> 1007
 <212> DNA
 <213> Homo sapiens

<400> 563
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 tggaccacta cagctggacg ggcaatggcg ggtcggggag ggcgagcacg acccaatgga 180
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 gctccaggcc gaaaccgagg tgtggacctc caggagaaca acccagccag ccggagccag 780
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<210> 564
 <211> 946
 <212> DNA
 <213> Homo sapiens

<400> 564
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 gggctactac aacccttcgc tgacgccata aaactcttca ccaaagagcc cctaaaaccc 180
 gccacatcta ccatcaccct ctacatcacc gcccgacct tagctctcac catcgtctct 240
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 ctacttctaa cctccctgtt cttatgaatt cgaacagcat acccccgatt ccgctacgac 840
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<210> 565

<211> 426
 <212> DNA
 <213> Homo sapiens

<400> 565
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 tctatggaaa ggggtaccc tcctccacgt gattcctaca gcagttcaag ccgcggagca 180
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 tagaaacaaa caaaactttg gaccaaatac ccagttcaaa gaaacaaaaa gtggaaacta 300
 ttctatcata actacccaag gactactaaa aggaaaaatt gtgttacttt ttttaaatc 360
 cctgttaagt tcccctccat aatttttatg ttcttgtgag gaaaaaagta aaacatgttt 420
 aatttt 426

<210> 566
 <211> 332
 <212> DNA
 <213> Homo sapiens

<400> 566
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 aagaggagaa gaggaaacac aagaagaaac gcctgggtgca gagccccaat tctacttca 120
 tggatgtgaa atgcccagga tgctataaaa tcaccacggt ctttagccat gcacaaacgg 180
 tagttttgtg tgttggtgc tccactgtcc tctgccagcc tacaggagga aaagcaaggc 240
 ttacagaagg atgttccttc aggaggaagc agcactaaaa gcactctgag tcaagatgag 300
 tgggaaacca tctcaataaa cacattttgg at 332

<210> 567
 <211> 870
 <212> DNA
 <213> Homo sapiens

<400> 567
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 tacgcagcac tgggtgcttc tgggtggatc attggctatg taaaagcagg cagcgtgccg 180
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<210> 568
 <211> 586
 <212> DNA
 <213> Homo sapiens

<400> 568
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 aactagtga tctggacagg gatgttttcc attccatctg gcataacccc ttcctgagcc 180
 catggacata tctgaagcct tctctctcac agttcagccc aggccttcca tgaacacatt 240
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 gttggatact taacctttta ttaggctgtt ggtgtgtatt attctttaca gctagatctt 360

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aaccattgg atagacatca tttttgtat ttttcacacc gatcagtttt tagctgaaag 420
ctattatata taggaggccc ttaaaatata tgttaaatga ataagtattt cacaacccgt 480
ttttgaatat ttccctctct aggtttgaac ttggctcatc ttccatagcc cacatggtaa 540
tggttacaac aatcaattc tccacaagaa cacggttga agaggt 586

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<210> 569

<211> 822

<212> DNA

<213> Homo sapiens

<400> 569

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agctcctgca cccccagggtc ctgcagctgc ttgttaagct ttttgagact gagcactccc 60
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tgctgagtcg aggttatgta cttcctgttg tcagttacat ccgaaagtgt ctggagaagc 180
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ccaagctgac ctgagttttc tcacaagaac ccagttagct gatgttttat tgtaattgtc 780
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<210> 570

<211> 1505

<212> DNA

<213> Homo sapiens

<400> 570

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gacaagcttg gtctgtaaga acacgtgggc aggtgtgtgg gtgtctcaga ccctcgagct 60
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gggtggaagg tccgcggggc ctgcttccct gttgctgggt caggcggagt gctcgaagc 180
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cttgaggtcn ggagttcaag accagcctgg gcaacataac aagactcatc tctgtttatan 1500
aaggt 1505

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<210> 571

<211> 1010

<212> DNA

<213> Homo sapiens

<400> 571

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cagagaacaa gatgtgtctt atgagtcttc tttctcaata cctgccctgt ctcaaatctc 60
acttgacaaa tgggtctacga tcttgacggt atccaaaaga gcctatgaaa aatggacagc 120
tgcttttgac aataatgccc ctcccaactt cccattcata gaatcataaa gcgatatggt 180
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<210> 572

<211> 673

<212> DNA

<213> Homo sapiens

<400> 572

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agagtggcac acctatgggt gccctgggag actggcctgc ccctattgag gagcgtgaga 180
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aacactattt ttg 673

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<210> 573

<211> 649

<212> DNA

<213> Homo sapiens

<400> 573

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aagtttcttg ttgctaaagt ggtgtaatot gttacacaga tgaatagcta gatgtggaaa 300
gagatatgta aacaagaaac ctttgggtat tgtttcttaa gtaaaattgg gacaatcatg 360
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tggatattta ttccttgaat tatgcaatgc aacattttac atgtaaatag cactgggtcat 480
atactgatgt atatggttat ctgggttata tctattttta tgtaaactct attttgtttt 540
tggcaagaag tgaaattgag acttatgtgc aggttgccat tgaattttgc tctggtgaat 600
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<210> 574

<211> 840

<212> DNA

<213> Homo sapiens

<400> 574

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actttaccca actctcacgt tccccatgac cacagatgtg gaaaatttga atcttgacag 120
ttcaagggtga actcagtcac tttcagagtt ttcatagtcc cttcaagatt gaaactcagt 180
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tttttgagca tgttcacact ccaagctgaa tgcagggtct tgggtagtgg tcctcacctg 480
ctccagagac ttctccagcc attgccactc tccactcagg tgatgaagct ggatgagggga 540
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tattccgaga tttccattgt tctgccccct cttgactccc agggctctca agggagtggg 660
ggtagtgaag ggagcccttt cccaagctcc cccaagagct ctagtacat cacttctgat 720
acttcttttc ccaccagctg gaagaaagaa ctttcatttg tcttgaatg agaaaaatgt 780
tcttagaata ttttgtatta ctctctgctc tgtcatttat ggtaaacaaa ataaaaataat 840

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<210> 575

<211> 606

<212> DNA

<213> Homo sapiens

<400> 575

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gggaggtgat cggggcagga gtaaaagtga cacctcagca aagccattcg ctgtgatctc 60
tgattgtgca gtgtcatgtc ctgtcaccag agccccctcg tgtttgatgt tggccaatgc 120
cgccagcatg atctagcagg ccaaatecta atctaccatt ctctgacacc agctgggtccc 180
ctgggtcgtc caccgatgt cccccattct cccacttgg cctccccac aggtctctcg 240
caaaggaccg tgggaggcac ctgtgacact gcccttttcc tgtgcagctg tttttcttct 300
tcattctttt cactcctcgt tactcttttt ttttttcaact ctgagccac aaaaaactag 360
gaactttggt attctactta tttttctgta ctctgtctgt ttgcacacag atggatatct 420
gagagccagc gaactttctt tacctcctag tatcatttca tgaaaattag tagcacctgc 480
acaatggggc cttggagaca ggaataaaag gaaaaatctg gaatggaatc acatgacgca 540
acaggctatg aagactccct gcccggtgc tatatgtctg gtaaacagaa taaatagtag 600
ttgagc                                           606

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<210> 576

<211> 352

<212> DNA

<213> Homo sapiens

<400> 576

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gccacctgcc ctgcctgggg gatcatactc ctgtcatagc agttgaagtt gccctctctc 60
tgccaaagtc tttcctggta tccagttgca atgagtcac ctttcttctt ggggtgccac 120
agtttgttct tctgttcag ttataccatt cagctcattc ttgttttct ttttattgga 180
attatgtgtg gacttctatc ttccaaaagc ctagaagctg agggctgggt ctttgttcat 240
ctttgtgtgc cccattgcac atggaataat acttggaata caaggccggc aacaccatac 300
aagctcagtg aatatattta tgtcatgctt caataaacta atgatatttt at 352

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<210> 577

<211> 747

<212> DNA

<213> Homo sapiens

<400> 577

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ctaattgagg attacagaaa gaaaaaaagc atttgtctta tttttagacg tgatctctga 60
tgtcttcaac ttttatcggt ctgtttttta ccttagatta ttataaccag ccacctacaa 120
aatctgcaat tttctctaata aagtcagcac ctgttaaaaa ggaggttgca caaaacactc 180
ccatttgcag tttggaagga ttattatctg ctttggctctg tgaagtggaa agtcaatgtt 240
cttattcaat ctgtgtctaa tgggtgcatt ttgaggacaa tggaaaacag atcatgtttg 300
attccttaag atgtggccac tgctatttgt ggtacaattt gtgatctgag agctgcatgt 360

```

```

aaaaaacaca tgagcaaaaa gaatatccag cacacaaggg ctggccttct gattctcaga 420
ggtatagtag caacacagct tacctctgca ttcaaagaag ctagaactta ccgcggataa 480
tcattagtag aagacagctt aaagtagtgt ctgctttctg gctaggcctg attcacaggt 540
gctgtgataa attcaaaaag acctgcctcc tctgatgtgc tagtatcaag ggtgagggag 600
acagttaacc aaactggtca aaagcattgt cagcaaagac ctggtgctga atcatgttgg 660
gaaactggag tttggagcta gagaggcaat aaccaagtat caaggtctga atgtccactt 720
tgtaaccact gtagtaataa ttgactc 747

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<210> 578

<211> 791

<212> DNA

<213> Homo sapiens

<400> 578

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gggcaccatg ccaagcactt tcatcattat ttatacatcg tcaccacacc ccctctatct 60
atgagaagta aagctgagaa aggaccagat tgaccaagcg ccagagacaa aatgtggcac 120
aacgagaacc ccagccctgt ccagggtggc ccgcgcccag ggcccaggct tagcagtgtc 180
ccctgcccta tctttgggaa aatcttgctt ttatggtctt ccccccctct gccctcaaga 240
acaagggcct tgtgctggg ccttcccatt gctgctttcc caagaaggcc tggattcagg 300
ggagaggcct tcccagggcc actcccctta caccctccca gaggcctgag caaccctct 360
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ccaccctctt gcgcctctgc cctctcccag tcccctgtg gcttctgaaa atctcaggga 480
cagatgaggc tgagccccta gtcccctctg tgtgctttga gcctccagac tcgaggctgg 540
tactgcagg tcccagggtg aatttgaca actggcctgg ccgctcccat cctgtaagcc 600
cccaccacgg ggagaccctc atccctgccc ctgtgtggct gcgcaagtat tctgcccgcc 660
tcccaccatc agccttcgcc caagggggcc ttctgcctct gcttccctcc cttctcctct 720
gtcttgccct ggcccacgca cgctgtctc gtcttccctg ttttgctgca ctacttttt 780
tatactctga c 791

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<210> 579

<211> 764

<212> DNA

<213> Homo sapiens

<400> 579

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cggacgcgtg ggtttcctag acacccttg gccacctttt tccacctgtt tttccgagtg 60
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gtcatggtgc tgctcctcct gtccctggac ttctggtctg tgaagaatgt aaccggaaga 180
ctcctggtgg gccttcgatg gtggaaccag atagatgaag atgggaagag cactggatc 240
tttgaagcca ggaaggtctc tccgaatagc attgctgcca cagaagctga agcacgaatc 300
ttctggctgg gcctcataat ctgcccctat atatggattg tgttttttt tagcacctta 360
ttttccttga agctaaagtg gctggctctg gtggtgctg ggatctctct ccaagctgca 420
aacctgtatg gctacatcct ttgtaagatg ggaggcaaca gtgacattgg caaggtcaca 480
gccagtttcc tgtcccagac agtgttccag acggcctgcc caggtgactt tcagaagcct 540
ggcctcgagg ggctggagat tcaccagcat taggaactga tgaggttctc ttcttttgac 600
tgatggagat tacaaaactc ttggattcct ggaaaacaag acgacaggca tagagtgcta 660
atggcttgct tacccttga cagccctgtc ctgtgctggg gagggctgtg ttttgacagg 720
ggtggaatcc tctggctagt tccataaaaa gacctgtgtc tgtg 764

```

<210> 580

<211> 746

<212> DNA

<213> Homo sapiens

<400> 580

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ccgtcttccc caaccaggag caggcccggg agctggcaaa gacgctggtt ggcgtgggag 60
ccagcctagg gcttcgggtc gcggcagcgc tgaccgccat ggacaagccc ctgggtcgct 120
gcgtgggcca cgccctggag gtggaggagg cgctgctctg catggacggc gcaggcccgc 180
cagacttaag ggacctgggc accacgctcg gggcgccct gctcggctc agcggacacg 240
cgggactca ggctcagggc gctgccggg tggccgggc gctggacgac ggctcggccc 300
ttggccgctt cgagcggatg ctggcggcgc agggcggtga tcccggctg gcccgagccc 360

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```

tgtgctcggg aagtcccgca gaacgccggc agctgctgcc tcgcgcccgg gagcaggagg 420
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tgctgcacga gctcggggcc gggcgagcc gcgctgggga gccgctccgc ctgggggtgg 540
gcgcagagct gctggtcgac gtgggtcaga ggctgcgcgc tgggaacccc tggctccgcg 600
tgcaccggga cggccccgcg ctcagcggcc cgcagagccg cgcctgcag gaggcgctcg 660
tactctccga ccgcgcgcca ttcgccgcc cctcgccctt cgcagagctc gttctgcgcg 720
cgcagcaata aagctccttt gccgcg 746

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<210> 581

<211> 665

<212> DNA

<213> Homo sapiens

<400> 581

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cccacgcgtc cggttataaa gaggtcacat agtcgtgtgg gtcgaggatt ctgtgcctcc 60
aggaccaggg gccaccctc tgcccaggga gtccttgctg cccatgaggt cttcccgcaa 120
ggcctctcag accagatgt gacggggtgt gtggcccgag gaagctggac agcggcagtg 180
ggcctgctga ggccttctct tgaggcctgt gctctggggg tcccttgctt agcctgtgcc 240
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actttttcta ggtggcagga caaatcgcg ccathtagag gatgtggctg taacctgctg 360
gatgggactc catagctcct tcccaggacc cctcagctcc ccggcactgc agtctgcaga 420
gttctcctgg aggcaggggc tgctgccttg tttcaacctc catgtcagga cagcctgtcc 480
ctgaaagaga agatggccat gccctccatt tgtaagaaca atgccagggc ccaggaggac 540
cgctgcctt gctgggctt tggtggggc tctggttctg acactttctg ctggaagctg 600
tcaggctggg acaggctttg attttgaggg ttagcaagac aaagcaaata aatgccttcc 660
acctc 665

```

<210> 582

<211> 533

<212> DNA

<213> Homo sapiens

<400> 582

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aaaagaaaaa ctgtaatcca tagccccagg cccaacacct gggctgtctc agctgggaac 60
ttgtttcagg tgcacttggg tttgagtcgt ggcccagaa cttcacagtt gtgtagtcac 120
ggagaagtca gttaacctca gtgaatctca gcatccagtg agaaaatcct catctccttt 180
atagggatgc tggatgtgtg cctagcacag tgccctggctt gcagacagtg tccccaaaca 240
gaaccagccc tgaataaatt gtgtgacaca caggcctcag ttcttgaaaa ggcttttagag 300
accaggcatg tggcttatgc ctataatccc agcactttga gaggtgaggt ctggaggatc 360
acttgagctc aggagtttga gaccagcctg ggcagcacat tgagactttg tctctaaaaa 420
aaaaaatcaa aaaaatttagc gaggcattgt ggcacatgcc tgtggtccca gctaccctgg 480
aggctgaggt gctgagaatt ccagcctggg tgacacagtg agatcttgac tct 533

```

<210> 583

<211> 952

<212> DNA

<213> Homo sapiens

<400> 583

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ctttattcct gtaaataatt ctgtgaaaac taggagaaca gagatgagat ttgacaaaaa 60
aaaattgaat taaaaataac acagtctttt taaaactaac ataggaaagc ctttcctatt 120
atttctcttc ttagcttctc cattgtctaa atcaggaaaa caggaaaaa cagctttcta 180
gcagctgcaa aatggtttta tgccccctac atatttccat caccttgaac aatagcttta 240
gcttgggaat ctgagatatg atcccagaaa acatctgtct ctacttcggc tgcaaaaccc 300
atggtttaaa tctatatggt ttgtgcattt tctcaactaa aaatrgagat gataatccga 360
attctccata tattcactaa tcaaagacac tattttcata ctagattcct gagacaaata 420
ctcactgaag ggcttgttta aaaataaatt gtgttttggg ctgttcttgt agataatgcc 480
cttctatttt aggtagaagc tctggaatcc ctttattgtg ctgttgctct tatctgcaag 540
gtggcaagca gttcttttca gcagattttg cccactatcc ctctgagctg aagttctttg 600
catagatttg gcttaagctt gaattagatc cctgcaaagg cttgctctct gatgtcagat 660
gtaattgtaa atgtcagtaa tcacttcatt aacgctaaat gagaatgtaa gtatttttaa 720

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atgtgtgtat ttcaaatttg tttgactaat tctggaatta caagatttct atgcaggatt 780
 taccttcac cgtgtcatgt ttcccaaact gtgaggaggg aaggctcaga gatcgagctt 840
 ctctctctgag ttctaacaaa atggtgcttt gagggtcagc ctttaggaag gtgcagcttt 900
 gttgtccttt gagctttctg ttatgtgcct atcctaataa actcttaaac ac 952
 <210> 584
 <211> 661
 <212> DNA
 <213> Homo sapiens

<400> 584
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 ccacctggag gctcagtagc acaaccacca caaccggcct cagggtcaca cagggcaaac 120
 gacgctcaga ctcttggcac ataagtctgg agactgctgt gggggtggca gtggctgtca 180
 ctgtgctcgg aatcatgatt ttgggactga tctgcctcct cagggtggag agaaggaaag 240
 gtcagcagcg gactaaagcc acaacccag ccagggaacc cttccaaaac acagaggagc 300
 catatgagaa tatcaggaat gaaggacaaa atacagatcc caagctaaat cccaaggatg 360
 acggcatcgt ctatgcttcc cttgccctct ccagctccac ctacccaga gcacctcca 420
 gccaccgtcc cctcaagagc ccccgagaac agaccctgta ctctgtctta aaggcctaac 480
 caatggacag ccctctcaag actgaatggt gaggccaggt acagtggcgc acacctgtaa 540
 tccagctac tctgaagcct gaggcagaat caagttagcc caggagtcca gggccagctt 600
 tgataatgga gcgagatgcc atctctagtt aaaaatatat taacaataaa gtaacaaatt 660
 t 661

<210> 585
 <211> 422
 <212> DNA
 <213> Homo sapiens

<400> 585
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 ggccaggcca tgttatggga tctcaacgaa ggcaaacacc ttacacgct agatgggtggg 120
 gacatcatca acgccctgtg ctccagccct aaccgctact ggctgtgtgc tgccacaggc 180
 cccagcatca agatctggga tttagaggga aagatcattg tagatgaact gaagcaagaa 240
 gttatcagta ccagcagcaa ggcagaacca cccagtgca cctccctggc ctggtctgct 300
 gatggccaga ctctgtttgc tggctacacg gacaacctgg tgcgagtgtg gcaggtgacc 360
 attggcacac gctagaagtt tatggcagag ctttacaaaa aaaaaaaaaa ctggcttttc 420
 tg 422

<210> 586
 <211> 924
 <212> DNA
 <213> Homo sapiens

<400> 586
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 ttgagcgggt cacaccagt ccttctctgc tcttcaatgg tatcatggca ttgatctact 120
 tgtgcgtgga agacatcttc cagctcatta actactacag ctccagctac tggttctttg 180
 tggggctttc tattgtgggt cagctttatc tgcgctggaa ggagcctgat cgacctcgtc 240
 ccctcaagct cagcgttttc ttcccgattg tcttctgcct ctgcaccatc ttctgggtgg 300
 ctgttccact ttacagtgat actatcaact cctcatcgg cattgccatt gccctctcag 360
 gectgccctt ttacttcctc atcatcagag tgccagaaca taagcgaccg ctttacctcc 420
 gaagatcgt ggggtctgcc acaaggtaac tccaggctct gtgtatgtca gttgctgcag 480
 aaatggattt ggaagatgga ggagagatgc ccaagcaacg ggatcccaag tctaactaaa 540
 caccatctgg aatcctgatg tggaaagcag gggtttctgg tctactggct agagctaagg 600
 aacttgaaaa ggaaagctca cttctttgga ggcacctgtc cagaagcctg gcctaggcag 660
 cttcaacctt tgaacttact ttttgaaatg aaaagtaatt tatttgtttt gctacatact 720
 gttccagact tttaaagggg acaatgaagg tgactgtggg gaggagcatg tcagggtttg 780
 gcttgggtgt tttagaagca cctgggtgtg cctacctact cctcttttct tttaaaagg 840
 cccacaatgc tccaatttcc tgtctcctt agagagacat gaaactatca cagggtgctgg 900
 atgccataaa aagtttatgt tcct 924

<210> 587
 <211> 434
 <212> DNA
 <213> Homo sapiens

<400> 587
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 tttgaagagt tccctgccga agactgggct ggcttagatg aagatgaaga tgcacatgtc 180
 tgggaggata attgggatga tgacaatgta gaggatgact tctctaata gttacgagct 240
 gaactagaga aacatgggta taagatggag acttcatagc atccagaaga agtggtgaag 300
 taacctaaac ttgacctgct taatacattc tagggcagag aaccagatg gggacactaa 360
 aaaaatgtgt ttatttcatt atctgcttgg atttatttgt gtttttgtaa cacaaaaaat 420
 aaatgttttg atat 434

<210> 588
 <211> 651
 <212> DNA
 <213> Homo sapiens

<400> 588
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 ggcacacacag aggagagaca cataagaaa gctctatctg cagccagact cttcaaaactg 120
 ccgccaggcc ctgaggccat gtagccaggc ccggaatggg cctctctgga caagagccac 180
 cctttcactg tgcataatgat gctgatgcaa ttcctccatc atctctggac gtgcagacca 240
 gatccagaag aaaggcctgg cgtgtggcca aacagcgtga aaccttggca caggactgag 300
 gatcctctcc tccagaaaag cccctcagag gaaataaatt agtgcggttc tctttgacct 360
 ccaaaagacaa gacaagcact tatttttatt ttcagaagac aaaagaacca agatgccaac 420
 tggctgcgaa tgctctatct ccagtctgtc tctgtgtact ggtagaggct gggaggagta 480
 gggggcagcc tgttccattt ctgatagtgc ccttgctctt ctgtctgtca tcttgaggga 540
 tgcccgaggg ccagatgggc ttagctagge caaagtaaca gactcaagag ttattgtaca 600
 ttactgacca cgctcatttg ttcaaaagtt agaacatctg gctgcaccag g 651

<210> 589
 <211> 552
 <212> DNA
 <213> Homo sapiens

<400> 589
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 ttaagcacta tgtttgtgtt ttatcagta ttatattcat tgtctttgga atacatgttc 180
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 aaaaaagcct aaatgttttt gctatgtaca gtttaaaaaat gtgaagtttg tagctttaac 300
 tttttgtaag aaaatctaata aacactggct taagtgtctga cttgaaatgc tattttgtaa 360
 ggtttggatg taagtaataca attgaggtca gcagtttgta tgagacatag cttcctccat 420
 tgccccact ccttttttct tttttaagtt tgagatgctt cctgtgtttt tatgttagaa 480
 ttgttgttct ccttcttttc ttcttctat acctcatcac gtttgtntta aataaactgt 540
 cctttggacc ac 552

<210> 590
 <211> 672
 <212> DNA
 <213> Homo sapiens

<400> 590
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 ggcaggttgg gagagtccct ctgcctgcgc agcctggctg ggttgagaca gcgggatggc 180
 ccttgctgcc tggctcacga aagccccctg tgggagagcc ccaggcgcgc agggcatgtg 240
 ggttggtggga agagcgggtc cccacgcccc ggtgtgggtg aactcgatag aggaggggtga 300

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caaccaccgg ggggtgctaat tagtaaccac agtggccttc aaagaactca aatgaaagga 360
agacttgtag gtctctcact ttaagtccag agctagaaat gattaagcct agtgaagatg 420
tagaattttc atagctagag agaagtcaat gcttggcttc aaaacttctt tgaggacca 480
tgcagctggg gactttaagt tacagccagt gctcattgac cactctgaaa atctcaggac 540
ccttaataat tatgcaaaat ctattcttct tgtgctctag aaatggaaca tcaactgtctg 600
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cctactgctc ag                                     672

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<210> 591

<211> 720

<212> DNA

<213> Homo sapiens

<400> 591

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agcggccgct cgcgatctag acccaatggt acagtcattg ttggggaatt agttggagca 60
cggcttattg ctcatgcagg ttctctttta aatttgccca agcatgcagc ttctaccgtt 120
cagattcttg gagctgaaaa ggcaactttc agagccctca aatctagacg ggataccctt 180
aagtatggct tcatttatca tgcttcactc gtgggccaga caagtcccaa acacaaagga 240
aagattttct gaatgctggc agccaaaacc gttttggcta tccgttatga tgcttttggg 300
gaggattcaa gttctgcaat gggagttgag aacagagcca aattagaggc cagggttgaga 360
acttttgaag acagagggat aagaaaaata agtggaacag gaaaagcatt agcaaaaaca 420
gaaaaatatg aacacaaaag tgaagtgaag acttacgata cttctgggtg ctccacactt 480
ccaacctggt ctaaaaaacg caaaatagaa caggtagata aagaggatga aattactgaa 540
aagaaagcca aaaaagccaa gattaaagtt aaagttgaag aagaggaaga agaaaaagtg 600
gcagaagaag aagaaacatc tgtgaagaag aagaagaaaa ggggtaaaaa gaaacacatt 660
aaggaagaac cactttctga ggaagaacca tgtaccagca cagcaattgc tagtccagag 720

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<210> 592

<211> 462

<212> DNA

<213> Homo sapiens

<400> 592

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ctcactgctc actgcaacct ctgcctccca ggttcaagca gttctctgtc ttggcctcct 60
gagtagctgg gaccacaggc acacaccacc acgcctgggt aatttttgta tttttagtgg 120
agacagagtt tcaccatggt gaccaggctg gcctaaaacc cctgatctca agtaatctgc 180
ctgcctcggc ctccaaagtg ctggaattac aggcgtaagc actgtgccag gccattttca 240
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atgtgtccaa tagaaactaa atgctaacta tcgattgcat gcttaattac ttttaccttt 360
gtcttaactc tactgttctt tacctaactt tttataacta ctttctgcat ttttgcattc 420
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<210> 593

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> linker sequence

<400> 593

gaattcggcc aaagaggcct a

21

<210> 594

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> linker sequence

<400> 594
gaattcggcc ttcattggcct a 21

<210> 595
<211> 8
<212> DNA
<213> Artificial Sequence

<220>
<223> linker sequence

<220>
<221> unsure
<222> (7)..(8)

<400> 595
gaattcnn 8

<210> 596
<211> 15
<212> DNA
<213> Artificial Sequence

<220>
<223> linker sequence

<220>
<221> unsure
<222> (1)..(9)

<400> 596
nnnnnnnnnnc tcgag 15

<210> 597
<211> 15
<212> DNA
<213> Artificial Sequence

<220>
<223> linker sequence

<220>
<221> unsure
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